



# Search Report

**EIC 3600**

**STIC Database Tracking Number: 235038**

**To: DAVID RINES**  
**Location: KNX-5A28**  
**Art Unit: 3626**  
**Friday, September 07, 2007**

**Case Serial Number: 09/887762**

**From: PAUL OBINIYI**  
**Location: EIC3600**  
**KNX-4B68 / KNX-4C25**  
**Phone: (571)272-7734**

**paul.obiniyi@uspto.gov**

## Search Notes

Dear Examiner RINES:

Attached please find the results of your search. Please feel free to contact me if you have additional questions or would like a re-focus search. Thank you and have a great day.

Paul



# STIC Search Results Feedback Form

## EIC 3600

Questions about the scope or the results of the search? Contact *the EIC searcher* or contact:

Karen Lehman, EIC 3600 Team Leader  
KNX 4A58, 571-271-3496

## Voluntary Results Feedback Form

- I am an examiner in Workgroup:  Example: 3620 (optional)
- Relevant prior art **found**, search results used as follows:
- ☐ 102 rejection
  - ☐ 103 rejection
  - ☐ Cited as being of interest.
  - ☐ Helped examiner better understand the invention.
  - ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
  - ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)
- Relevant prior art **not found**:
- ☐ Results verified the lack of relevant prior art (helped determine patentability).
  - ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to EIC3600 PK5 Suite 804



(P)

235038

**Griffin, Etelka**

**From:** ROBERT RINES [robert.rines@uspto.gov]  
**Sent:** Wednesday, August 22, 2007 3:10 PM  
**To:** STIC-EIC3600  
**Subject:** Database Search Request, Serial Number: 09/887,762

**Requester:**  
ROBERT RINES (P/3626)  
**Art Unit:**  
TC 3600 - GROUP ART UNIT 3626  
**Employee Number:**  
81260  
**Office Location:**  
KNX 05A28  
**Phone Number:**  
(571)272-5585  
**Mailbox Number:**  
5A11

**Case serial number:**  
09/887,762  
**Class / Subclass(es):**  
705/2,3  
**Earliest Priority Filing Date:**  
6/23/2000  
**Format preferred for results:**  
Paper

**Search Topic Information:**

An electronic device [e.g., hand-held device, Personal Digital Assistant (PDA), laptop computer, touch screen device) including:

1. a video camera:
2. incorporated means for communicating wirelessly with a medical device implanted in a patient (the type of wireless communication described by this element is typically called "telemetry". examples of the implanted device(s) include an implanted pacemaker, or implanted drug infusion pump/device. The device retrieves and sends data to and from the implanted device. Devices that do this are alternatively called "external programers" or "external device".)
3. device further includes: means for wirelessly communicating with a remote location to send and retrieve patient information to and from the remote location (communication at this step is standard over the air wireless communication like a cell phone or wireless network and the remote location is a computer at a hospital or doctor's office or coordination center for the company monitoring the patient. the type of information is patient related information including treatment schedules and prescriptions and/or information regarding the patient's implanted device).
4. means for securely accessing/downloading patient data from the remote location.
5. software on the device for planning/organizing visits to patient's having the implwnted devices.
6. a touch screen to operate all of the above features/elements.

Overview: the claimed electronic device is designed to allow a traveling healthcare worker (e.g. nurse, homecare personnel, physician etc.) to plan a schedule (by using incorporated sceduling/map software) of visits to patients having implanted devices such as pacemakers or drug infusion pumps. The device has elements to wirelessly transmit and download information to and from the implanted device. The device also has elements to wirelessly transmit and download patient data to and from a remote location including information

regarding the patient's treatment and/or the patient's implanted device. The device also includes a video camera that is used to transmit images of the patient and the healthcare worker to the remote location for the purpose of verifying the identity of the worker and patient. Lastly, all of the above features are operated by a touch screen incorporated into the device.

Special Instructions and Other Comments:

I need all of the mandatory business methods databases search for this. it is classified in 705/2,3. Thanks for the help.



? show files

[File 15] **ABI/Inform(R)** 1971-2007/Sep 06

(c) 2007 ProQuest Info&Learning. All rights reserved.

[File 16] **Gale Group PROMT(R)** 1990-2007/Sep 04

(c) 2007 The Gale Group. All rights reserved.

[File 148] **Gale Group Trade & Industry DB** 1976-2007/Sep 03

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*\*File 148: The CURRENT feature is not working in File 148. See HELP NEWS148.*

[File 160] **Gale Group PROMT(R)** 1972-1989

(c) 1999 The Gale Group. All rights reserved.

[File 275] **Gale Group Computer DB(TM)** 1983-2007/Jul 24

(c) 2007 The Gale Group. All rights reserved.

[File 621] **Gale Group New Prod.Annou.(R)** 1985-2007/Aug 31

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[File 13] **BAMP** 2007/Aug W4

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[File 95] **TEME-Technology & Management** 1989-2007/Sep W1

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[File 9] **Business & Industry(R)** Jul/1994-2007/Aug 30

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[File 624] **McGraw-Hill Publications** 1985-2007/Sep 06

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*\*File 624: Homeland Security & Defense and 9 Plat energy journals added Please see HELP NEWS624 for more*

[File 636] **Gale Group Newsletter DB(TM)** 1987-2007/Sep 04

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[File 348] **EUROPEAN PATENTS** 1978-2007/ 200735

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*\*File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 349] **PCT FULLTEXT** 1979-2007/UB=20070823UT=20070816

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*\*File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

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Set	Items	Description
S1	735486	S ELECTRONIC()DEVICE? ? OR TOUCH()SCREEN()DEVICE? ? OR S POCKET?? OR PALM()TOP?? OR PALMTOP?? OR PALM(2N)PILOT?? OR HANDSPRING?? OR HAND()SPRING?? OR HANDHELD?? OR HAND()HELD?? OR POCKETPC OR POCKET()PC OR HANDHELD()DIGITAL()ORGANIZER?? OR PDA OR (PORTABLE?? OR PERSONAL??)()DIGITAL()ASSISTANT? ? OR PORTABLE()COMPUT???()DEVICE? ?
S2	695925	S CAMERA? ? OR CCD OR CHARGE()COUPLED()DEVICE
S3	111287	S TOUCH(3N)(SCREEN? ? OR DISPLAY? ?) OR TOUCHSCREEN? ? OR TOUCHDISPLAY? ?
S4	863594	S TRAVELL??? (3N)HEALTHCARE(3N)WORKER? ? OR NURSE? ? OR HOMECARE? ? OR PHYSICIAN? ?
S5	610536	S (PLANS OR PLAN OR PLANNING OR ORGANI???? OR MAK??? OR CREAT??? OR DEVELOP???) (7N) (SCHEDUL??? OR TIMING OR INTERVAL? ? OR REGIMEN? ? OR ROUTINE OR TIMETABLE? ? OR TIMELINE OR VISIT? )
S6	1592	S INCORPORAT?()SCHEDUL? OR MAP()SOFTWARE? ?
S7	339153	S (IMPLANT? OR MEDICAL) (3N)DEVICE? ? OR PACEMAKER? ? OR DRUG()INFUSION()PUMP? ?
S8	268442	S WIRELESS(3N) (DOWNLOAD? OR UPLOAD? OR RECEIV? OR SUBMITTING OR SUBMIT OR SEND OR SENDING OR TRANSFER OR TRANSFERRING OR FORWARD OR FORWARDING OR PASS??? OR TRANSMIT OR TRANSMITTING OR COMMUNICAT???) OR TELEMETRY
S9	316802	S (REMOTE OR DISTANT OR FARAWAY OR FAR()AWAY OR OFFSITE) (3N) (LOCATION OR PLACE OR POINT OR DEVICE? OR APPARATUS OR SYSTEM? ? OR GADGET? ? OR EQUIPMENT?? ) OR EXTERNAL (3N) (DEVICE? ? OR PROGRAMER? ?)
S10	248543	S (PATIENT? ? OR INPATIENT? ? OR OUTPATIENT? ? OR (TREATED OR TREATMENT? ? OR SICK OR INJUR?? OR OPERATED OR OPERATION OR HOSPITALI???) () (PERSON? ? OR PEOPLE OR RESIDENT? ?)) (7N) (INFO OR INFORMATION? ? OR DATA OR CODE? ?)
S11	2354	S AU=( THOMPSON, D? OR THOMPSON D? OR THOMPSON(2N)D?)
S12	98	S S11 AND S1
S13	27	S S12 AND S7
S14	25	S S13 AND S8
S15	22	S S14 AND S10
S16	17	S S15 AND S9
S17	15	S S16 AND S4
S18	4	S S17 AND S2
S19	26136	S S1(7N)S2
S20	64	S S19(7N)S3
S21	0	S S20(7N)S4
S22	0	S S20(7N)S10
S23	1223	S S9(10N)S10
S24	57	S S23(7N)S8
S25	10	S S24 NOT PY>2000
S26	113	S S23(7N)S4
S27	3	S S26(7N)S1
S28	3	S S27 NOT (S25 OR S18)
S29	5088	S S1(7N)S4
S30	584	S S29(7N)S10
S31	1	S S30(7N) (S2:S3)
S32	1	S S31 NOT (S28 OR S25 OR S18)
S33	4	S S30(7N)S7
S34	4	S S33 NOT (S32 OR S28 OR S25 OR S18)
S35	4	S S30(7N)S8
S36	4	S S35 NOT (S34 OR S32 OR S28 OR S25 OR S18)
S37	4	S S30(7N)S9
S38	1	S S37 NOT (S36 OR S34 OR S32 OR S28 OR S25 OR S18)
S39	0	S S30(7N) (S5:S6)

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? t /3,k/all

18/3K/1 (Item 1 from file: 348) [Links](#)

EUROPEAN PATENTS

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01576270

**LIFESTYLE MANAGEMENT SYSTEM**

**LEBENSSTILVERWALTUNGSSYSTEM**

**SYSTEME DE GESTION DE MODE DE VIE**

**Patent Assignee:**

- **MEDTRONIC, INC.;** (3290920)  
710 Medtronic Parkway; Minneapolis, Minnesota 55432-5604; (US)  
(Proprietor designated states: all)

**Inventor:**

- **FABIAN, Willa**  
610 Saddle View Court; Atlanta, GA 30350; (US)
- **MOORE, David**  
2043 151st Avenue Northeast; Ham Lake, MN 55304; (US)
- **KAUFMAN, Hal**  
12620 Hilloway Road West; Minnetonka, MN 55305; (US)
- **THOMPSON, David, L.**  
14171 Alder Street Northwest; Andover, MN 55304; (US)
- ...US)  
;;
- **THOMPSON, David, L...**  
;;

**Legal Representative:**

- **Hughes, Andrea Michelle (75891)**  
Frank B. Dehn & Co. St Bride's House 10 Salisbury Square; London EC4Y 8JD; (GB)

	Country	Number	Kind	Date	
Patent	EP	1423045	A1	20040602	(Basic)
	EP	1423045	B1	20070117	
	WO	2003020127		20030313	
Application	EP	2002757113		20020814	
	WO	2002US25846		20020814	
Priorities	US	944720		20010831	

**Designated States:**

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; IE; IT; LI; LU; MC; NL;  
PT; SE; SK; TR;

**Extended Designated States:**

AL; LT; LV; MK; RO; SI;

**International Patent Class (V7):** A61B-005/00; A61N-001/372

IPC	Level	Value	Position	Status	Version	Action	Source	Office
A61B-0005/00	A	I	F	B	20060101	20030314	H	EP
A61N-0001/372	A	I	L	B	20060101	20030314	H	EP

**NOTE:** No A-document published by EPO

Type	Pub. Date	Kind	Text
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Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200703	347
CLAIMS B	(German)	200703	369
CLAIMS B	(French)	200703	412
SPEC B	(English)	200703	5472
Total Word Count (Document A) 0			
Total Word Count (Document B) 6600			
Total Word Count (All Documents) 6600			

**Specification:** ...B1

The present invention generally relates to **medical devices** and communications systems. Specifically, the invention relates to an apparatus that allows a patient to... affect the onset, time course and severity of various disease conditions. The invention includes an **implantable medical device** that provides **patient data** to a home monitoring system, which also has various additional inputs to improve and modify the patient's environment and lifestyle. The patient's **implanted device**, home monitoring system, and a **remote** expert station maintain data communication via standard **telemetry** systems, home network systems such as Bluetooth, HomeRF, or WLAN, and the Internet, worldwide web... or more risk factors.

We propose that by providing feedback and consoling to patients with **implantable medical devices** (IMDs, i.e., PCD, **pacemaker**, neurostimulator, drug pump, ILR, Chronicle monitor, etc), we can impact environmental factors, diet, exercise level... of home health care began in the 1850's when traveling health care professionals, usually **physicians**, provided in-home visits to those who were in need of health care and unable... the middle of the twentieth century, this type of medical service was transferred from the **physician** to **nurses** or other health care workers. During the past decade, providing home health care has become... treatment on an "as needed" basis. Through the auspices of hospices or other support groups, **nurses** or health care workers provide medical care and

evaluation on a periodic basis - usually a... Although these visits provide the contracted services, nonetheless they suffer from minimal oversight of a **physician**-ordered treatment and/or preventative plan.

Additionally, with longevity increases of the past several decades... herein above listed articles. The ill elderly are often given a treatment plan by their **physician** that can positively impact their longevity and quality of life if followed correctly and religiously... time consuming, confusing, prone to errors and not well administered in many cases.

Patients with **implantable medical devices** (IMDs) also require regular checkups to determine whether their IMDs have been functioning properly. Most... the very least. Such monitoring may occur transtelephonically from the patient's home or via **telemetry** as has been disclosed in U.S. Pat. No. 5,752,976 issued to Duffin, et al, "World Wide Patient Location and Data Telemetry System for Implantable Medical Devices".

The '976 patent however does not describe a system that provides automatic feedback to a patient to reinforce positive activities and monitor adherence to a **physician** ordered treatment regime.

Various solutions to these issues, in addition to the '976 patent have... the art. U.S. Pat. No. 5,553,609 issued to Chen, et al, "Intelligent Remote Visual Monitoring System for Home Health Care Service" discloses a computer-based **remote** visual monitoring system connected transtelephonically to a remote master-monitoring computer. This system is intended for use by a visiting **nurse** during an in-home patient health care visit. Separate audio and visual equipment facilitates communication... not teach a method for continuous monitoring, treatment adherence and consoling patients with IMDs.

A **remote** visual monitoring system for home health care is disclosed in U.S. Pat. No. 5,553,609 issued to Chen, et al, "Intelligent Remote Visual Monitoring System for Home Health Care Service". The system has several layers, including units in the patient... and modify, a common image on their computer displays. The invention also provides a video **camera** at each computer, which takes a video picture of each party. The systems described... feedback to a patient to follow a suggested treatment or therapy plan by his/her **physician** to allow life style changes that will positively affect their disease onset and/or progression... through various automatic computerized means and to be displayed in conjunction with, or overlaid upon **implantable medical device** (IMD) derived information. Trends of lifestyle data may be analyzed through a graphically displayed calendar view combined with device **information** allowing the **patient** and their **physician** the ability to monitor adherence to exercise and diet treatment regimes prescribed by the **physician**. Further, the invention enables cardiac arrhythmia, heart failure, cancer, lupus, hypertension, and the like patients... medical problems.

## BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an illustration of a body **implantable device** system in accordance with the present invention, including a hermetically sealed **device implanted** in a patient, an external patient display and **remote** monitoring system.

FIG. 2 is a block diagram of the **implanted device** from FIG. 1,

FIG. 3a is a block diagram showing the communication system in accordance with the present invention from the **implanted device** of FIG 2,

FIG. 3b is a block diagram showing the communication system in accordance... of the present invention, and

FIG. 6 is a Lifestyle Management Trend Chart for providing **information** to the **patient** and his/her following **physician**.

18/3K/2 (Item 2 from file: 348) [Links](#)

## EUROPEAN PATENTS

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01398372

### **PORTABLE EXTENDER FOR DATA TRANSMISSION WITHIN A MEDICAL DEVICE COMMUNICATION SYSTEM**

TRAGBARE ERWEITERUNGSVORRICHTUNG FÜR DATENÜBERTRAGUNG IN EINEM  
KOMMUNIKATIONSSYSTEM EINER MEDIZINISCHEN VORRICHTUNG

DISPOSITIF D'EXTENSION PORTATIF PERMETTANT LA TRANSMISSION DE DONNÉES À L'INTÉRIEUR  
D'UN SYSTÈME DE COMMUNICATION DE DISPOSITIFS MÉDICAUX

PORTABLE EXTENDER FOR DATA TRANSMISSION WITHIN A **MEDICAL DEVICE** COMMUNICATION  
SYSTEM

#### **Patent Assignee:**

- **Medtronic, Inc.**, (3290920)  
710 Medtronic Parkway; Minneapolis, Minnesota 55432-5604; (US)  
(Proprietor designated states: all)

#### **Inventor:**

- **THOMPSON, David, L.**  
14171 Alder Street Northwest; Andover, MN 55304; (US)
- **THOMPSON, David, L...**  
;;

#### **Legal Representative:**

- **Hughes, Andrea Michelle (75891)**  
Frank B. Dehn & Co., European Patent Attorneys, 179 Queen Victoria Street; London EC4V 4EL; (GB)

	Country	Number	Kind	Date	
Patent	EP	1294440	A2	20030326	(Basic)
	EP	1294440	B1	20050601	
	WO	2002000297		20020103	
Application	EP	2001948571		20010622	
	WO	2001US19850		20010622	
Priorities	US	213858	P	20000623	

#### **Designated States:**

DE; FR;

#### **Extended Designated States:**

AL; LT; LV; MK; RO; SI;

**International Patent Class (V7):** A61N-001/372

**NOTE:** No A-document published by EPO

Type	Pub. Date	Kind	Text
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Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200522	460
CLAIMS B	(German)	200522	471
CLAIMS B	(French)	200522	521
SPEC B	(English)	200522	5324
Total Word Count (Document A) 0			
Total Word Count (Document B) 6776			
Total Word Count (All Documents) 6776			

**Specification: ...B1**

The present invention generally relates to **medical devices** and communications systems. Specifically, the invention relates to a portable extender that is in **wireless communication** with a **device implanted** in a patient. The extender is a computer that transmits and exchanges **data** between a **patient** station and a remote expert station. The **patient** station and remote expert station maintain **data** communication via network systems such as the Internet, worldwide web, intranet, extranet, or other similar... of home health care began in the 1850's when traveling health care professionals, usually **physicians**, provided in-home visits to patients who were in need of health care and were... the middle of the twentieth century, this type of medical service was transferred from the **physician** to **nurses** or other health care workers. During the past decade, providing home health care has become... treatment on an "as needed" basis. Through the auspices of hospices or other support groups, **nurses** or health care workers provide medical care and evaluation on a periodic basis. Although these visits provide the contracted services, nonetheless they still suffer from administrative "overload" tasks.

The **nurse** or other health care worker may spend much of her time on the phone, contacting **physicians**, druggists, plan administrators, the family members of the patient, and so on. In addition, that same **nurse** must take notes and/or fill out health plan or HICFA forms to ensure reimbursement... has little to do with providing medical care and evaluation of the patient.

Patients with **implantable medical devices** (IMDs) also require regular checkups to determine whether their IMDs have been functioning properly. Most... the very least. Such monitoring may occur transtelephonically from the patient's home or via **telemetry** as has been disclosed in U.S. Pat. No. 5,752,976 issued to Duffin, et al, "World Wide Patient Location and Data Telemetry System for Implantable Medical Devices".

Still, some of the very elderly patients with IMDs, whether single or multiple, require periodic visits from health care **nurses/workers** to evaluate their IMD(s). Various solutions to these issues, in addition to the... the art. U.S. Pat. No. 5,553,609 issued to Chen, et al, "Intelligent Remote Visual Monitoring System for Home Health Care Service" generally discloses a computer-based **remote** visual monitoring system connected transtelephonically to a remote master-monitoring computer. This system is intended for use by the visiting **nurse** during an in-home patient health care visit. Separate audio and visual equipment facilitates communication between the patient's home and remote station. The system has several layers, including units in the patient's home, the caregiver's office, and... No.

18/3K/3 (Item 1 from file: 349) [Links](#)

PCT FULLTEXT

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00990532

**LIFESTYLE MANAGEMENT SYSTEM**  
**SYSTEME DE GESTION DE MODE DE VIE**

**Patent Applicant/Patent Assignee:**

- **MEDTRONIC INC**; LC 340, 710 Medtronic Parkway, Minneapolis, MN 55432  
US; US(Residence); US(Nationality)

**Legal Representative:**

- **WOLDE-MICHAEL Girma(et al)(agent)**  
710 Medtronic Parkway NE, Minneapolis, MN 55432-5601; US;

	Country	Number	Kind	Date
Patent	WO	200320127	A1	20030313
Application	WO	2002US25846		20020814
Priorities	US	2001944720		20010831

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;  
SE; SK; TR;

Publication Language: English

Filing Language: English

Fulltext word count: 6096

**English Abstract:**

A **patient** monitoring system in cooperation with IMDs provides **information**, direction and counseling to **patients**. Specifically, a combination of lifestyle parameters such as, for example, diet, exercise, weight, medication and...  
...data, food data from refrigerators and pantry, type of exercise equipment, medication, physiologically significant events, **physician** treatment plan and the like are integrated with IMD **data** to provide continuous **patient** care, counseling, consultation and notification. The remote expert station enables doctors and other health care...

**French Abstract:**

...d'un patient en cooperation avec un IMD (dispositif medical implantable), permettant de fournir des **informations** et des conseils a des **patients**. En particulier, l'invention concerne une combinaison de parametres de mode de vie et



que...

### Detailed Description:

#### LIFESTYLE MANAGEMENT SYSTEM

The present invention generally relates to **medical devices** and communications systems. Specifically, the invention relates to a method and apparatus that allows a... affect the onset, time course and severity of various disease conditions. The invention includes an **implanted medical device** that provides **patient data** to a home monitoring system, which also has various additional inputs to improve and modify the patient's environment and lifestyle. The patient's **implanted device**, home monitoring system, and a **remote** expert station maintain data communication via standard **telemetry** systems, home network systems such as ... or more risk factors.

We propose that by providing feedback and counseling to patients with **implantable medical devices** (IMDs, i.e., PCD, **pacemaker**, neurostimulator, drug pump, ILR, Chronicle monitor, etc), we can impact environmental factors, diet, exercise level... of home health care began in the 1850's when traveling health care professionals, usually **physicians**, provided in-home visits to those who were in need of home health care. In the middle of the twentieth century, this type of medical service was transferred from the **physician** to **nurses** or other health care workers. During the past decade, providing home health care has become... treatment on an "as needed" basis. Through the auspices of hospices or other support groups, **nurses** or health care workers provide medical care and evaluation on a periodic basis - usually as... herein above listed articles.

The ill elderly are often given a treatment plan by the **physician** that can positively impact their longevity and quality of life if followed correctly and religiously... time-consuming, confusing, prone to errors and not well administered in many cases.

Patients with **implantable medical devices** (IMDs) also require regular checkups to determine whether their IMDs have been functioning properly... the very least. Such monitoring may occur transtelephonically from the patient's home or via **telemetry** as has been disclosed in U.S.

Pat. No. 5,752,976 issued to Duffin, et al, "World Wide **Patient Location and Data Telemetry System for Implantable Medical Devices**", incorporated herein by ... provides automatic feedback to a patient to reinforce positive activities and monitor adherence to **physician** ordered treatment regime.

Various solutions to these issues, in addition to the '976 patent have... the art. U.S. Pat. No. 5,553,609 issued to Chen, et al, "Intelligent **Remote Visual Monitoring System for Home Health Care Service**" discloses a computer-based **remote** visual monitoring system connected transtelephonically to a **remote** master monitoring computer. This system is intended for use by a visiting **nurse** during ... not teach a method for continuous monitoring, treatment adherence and counseling patients with IMDs.

A **remote** visual monitoring system for home health care is disclosed in U.S. Pat.

No. 5,553,609 issued to Chen, et al, "Intelligent **Remote Visual Monitoring System for Home Health Care Service**". The system has several layers, including units in the patient... and modify, a common image on their computer displays. The invention also provides a video camera at each computer, which takes a video picture of each party. The systems described in... feedback to a patient to follow a suggested treatment or therapy plan by his/her **physician** to allow life style changes that will positively affect their disease onset and/or progression... through various automatic computerized means and to be displayed in conjunction with, or overlaid upon, **implantable medical device** (IMD)

18/3K/4 (Item 2 from file: 349) [Links](#)

PCT FULLTEXT

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00867880

**PORTABLE EXTENDER FOR DATA TRANSMISSION WITHIN A MEDICAL DEVICE  
COMMUNICATION SYSTEM**

DISPOSITIF D'EXTENSION PORTATIF PERMETTANT LA TRANSMISSION DE DONNEES A L'INTERIEUR  
D'UN SYSTEME DE COMMUNICATION DE DISPOSITIFS MEDICAUX

PORTABLE EXTENDER FOR DATA TRANSMISSION WITHIN A **MEDICAL DEVICE** COMMUNICATION  
SYSTEM

**Patent Applicant/Patent Assignee:**

- **MEDTRONIC INC**; 710 Medtronic Parkway Northeast, Minneapolis, MN 55432  
US; US(Residence); US(Nationality)

**Legal Representative:**

- **WOLDE-MICHAEL Girma(et al)(agent)**  
Medtronic, Inc. LC340, 710 Medtronic Parkway, Minneapolis, MN 55432; US;

	Country	Number	Kind	Date
Patent	WO	200200297	A2-A3	20020103
Application	WO	2001US19850		20010622
Priorities	US	2000213858		20000623

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR;

Publication Language: English

Filing Language: English

Fulltext word count: 6188

**English Abstract:**

Apparatus and method for managing chronic home care of patients with one or more **implanted medical devices** (IMDs) includes a mobile/portable device for use by a visiting **nurse**. Specifically, the portable device integrates various systems to enable the **nurse** to schedule her day and get directions to a first and subsequent visit destination via... equivalent. The portable device includes an identification system including a security protocol to identify the **nurse/home health care provider**. Additionally, the portable device incorporates a communication system such as a cellular phone that would enable the **nurse** to connect to other clinical support personnel such as a doctor or a specialist. The portable device further includes a **wireless communication** system that enables communication

between the portable device and one or more IMDs in patient. Upon arrival at the **patient's** home, the **nurse** may download **data** from the one or more IMDs directly into the portable device. This data could in... or equivalent. Similar to the IMD data, this medical data could be transmitted to the **remote location** from the portable device.

#### **French Abstract:**

...soins a domiciles de maladies chroniques chez des patients possedant un ou plusieurs dispositifs medicaux **implantes (implanted medical devices / IMD)**, ledit appareil comprenant un dispositif portatif mobile destine a etre utilise par une infirmiere...

#### **Detailed Description:**

##### **PORTABLE EXTENDER FOR DATA TRANSMISSION WITHIN A MEDICAL DEVICE COMMUNICATION SYSTEM**

This application claims priority to provisionally-filed patent application having serial number 60..... which is incorporated herein by reference in its entirety.

The present invention generally relates to **medical devices** and communications systems. Specifically, the invention relates to a portable extender that is in **wireless communication** with a **device implanted** in a patient. The extender is a computer that transmits and exchanges **data** between a **patient** station and a remote expert station. The **patient** station and remote expert station maintain **data** communication via network systems such as the Internet, worldwide web, intranet, extranet, or other similar... of home health care began in the 1850's when traveling health care professionals, usually **physicians**, provided in-home visits to patients who were in need of health care and were... the middle of the twentieth century, this type of medical service was transferred from the **physician** to **nurses** or other health care workers. During the past decade, providing home health care has become... treatment on an "as needed" basis. Through the auspices of hospices or other support groups, **nurses** or health care workers provide medical care and evaluation on a periodic basis. Although these visits provide the contracted services, nonetheless they still suffer from administrative "overload" tasks.

The **nurse** or other health care worker may spend much of her time on the phone, contacting **physicians**, druggists, plan administrators, the family members of the patient, and so on. In addition, that same **nurse** must take notes and/or fill out health plan or HICFA forms to ensure reimbursement... has little to do with providing medical care and evaluation of the patient.

Patients with **implantable medical devices (IMDs)** also require regular checkups to determine whether their IMI)s have been functioning properly... least. Such monitoring may occur 10 transtelephonically from the patient's home or via **telemetry** as has been disclosed in U.S.

Pat. No. 5,752,976 issued to Duffin, et al "World Wide **Patient** Location and **Data Telemetry** System for **Implantable Medical Devices**", incorporated herein by reference in its totality. Still, some of the very elderly patients with IMDs, whether single or multiple, require periodic visits from health care **nurses/workers** to evaluate their IMD(s).

15 Various solutions to these issues, in addition... the art. U.S. Pat. No. 5,553,609 issued to Chen, et al, "Intelligent **Remote Visual Monitoring System** for Home Health Care Service" generally discloses a computer-based **remote** visual monitoring **system** connected transtelephonically to a remote master-monitoring computer. This system is intended for use by the visiting **nurse** during an in-home patient 20' health care visit. Separate audio and visual

? t /3,k/all

25/3,K/1 (Item 1 from file:15) [Links](#)

Fulltext available through: [ScienceDirect](#)

ABI/Inform(R)

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01804276 04-55267

**The freedom to roam**

McConnell, Edwina A

Nursing Management v30n4 pp: 51, 54

Apr 1999

**ISSN:** 0744-6314 **Journal Code:** NSM

**Word Count:** 1226

**Text:**

...17

Miniature wireless patient monitoring technologies such as pager- or credit card-sized alarm notification systems permit remote event and physiologic waveform monitoring. The devices acquire alarm data from patient monitors and relay it to wireless communicators worn by nurses. The data may include patient name, room number, alarm condition, heart...

25/3,K/2 (Item 1 from file:9) [Links](#)

Business & Industry(R)

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01737791 Supplier Number: 24128470 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Patient Monitoring Systems and Telemetry Monitoring in Europe**

( Europe's patient monitoring systems market increased from \$461.4 mil of revenues in 1996 to \$467.6 mil in 1997 )

Medical & Healthcare Marketplace Guide , v 1 , p I-616+

1998

**Document Type:** Journal; Industry Overview ( United States )

**Language:** English **Record Type:** Fulltext

**Word Count:** 1264 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**TEXT:**

...products include the following types:

- ECG telemetry products -- single parameter monitoring products that monitor a patient's ECG and transmit the data to a central station

- multiparameter telemetry products -- remote monitoring systems that monitor pulse oximetry and non-invasive blood pressure in addition to ECG and deliver...

25/3K/3 (Item 1 from file: 349) [Links](#)

PCT FULLTEXT

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00759822

**PRESERVING DATA IN IMPLANTABLE PULSE GENERATOR SYSTEMS**  
**CONSERVATION DE DONNEES DANS DES SYSTEMES GENERATEURS D'IMPULSIONS**  
**IMPLANTABLES**

**Patent Applicant/Patent Assignee:**

- **CARDIAC PACEMAKERS INC**; 4100 Hamline Avenue North, St.Paul, MN 55112  
US; US(Residence); US(Nationality)

**Legal Representative:**

- **VIKSNINS Ann S**  
Schwegman, Lundberg, Woessner & Kluth, P.O. Box 2938, Minneapolis, MN 55402; US;

	Country	Number	Kind	Date
Patent	WO	200072917	A1	20001207
Application	WO	2000US14490		20000525
Priorities	US	99321254		19990527

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE;

Publication Language: English

Filing Language: English

Fulltext word count: 9228

**Detailed Description:**

...specific data is then transferred to the second pulse generator. In one embodiment, transferring the patient specific data from the external device occurs over a telemetry channel as previously described, except that the digital data representing the patient specific data will...

25/3K/4 (Item 2 from file: 349) [Links](#)

PCT FULLTEXT

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00749653

**PORTABLE REMOTE PATIENT TELEMONITORING SYSTEM**

**SYSTEME PORTABLE DE TELESURVEILLANCE DE PATIENTS ELOIGNES**

**Patent Applicant/Patent Assignee:**

- **NEXAN LIMITED**; The Quorum, Barnwell Road, Cambridge CB5 8RE  
GB; GB(Residence); GB(Nationality)  
(For all designated states except: US)
- **KUMAR Harpal S**; 45 Oak Tree Avenue, Cambridge CB4 1AZ  
GB; GB(Residence); GB(Nationality)  
(Designated only for: US)
- **JOHNSON Paul**; Laneside House, Kingshead Lane, Islp, Oxford OX5 2RZ  
GB; GB(Residence); GB(Nationality)  
(Designated only for: US)
- **LLEWELLYN Michael D**; 9 Misty Meadows, Howard Road, Cambridge CB5 8UR  
GB; GB(Residence); GB(Nationality)  
(Designated only for: US)
- **MULLARKEY William J**; 7 Harper Street, Hindley, Wigan WN2 3HL  
GB; GB(Residence); GB(Nationality)  
(Designated only for: US)
- **NEW William Jr**; 95 Skywood Way, Woodside, CA 94062-4839  
US; US(Residence); US(Nationality)  
(Designated only for: US)
- **NICOLSON Laurence J**; Flat 10, Heywood Court, Heywood Road, Liverpool L15 7LS  
GB; GB(Residence); GB(Nationality)  
(Designated only for: US)
- **O'BRIEN William G**; 4 High Street, Chrishall, Royston, Herts SG8 8RP  
GB; GB(Residence); GB(Nationality)  
(Designated only for: US)
- **PLACE John D**; Vicarage Farm, Upthorne Road, Stanton, Bury St. Edmunds, Suffolk IP31 2AP  
GB; GB(Residence); GB(Nationality)  
(Designated only for: US)
- **RELPH Peter M**; 15 Church Mead, Roydon, Essex CM19 5EY  
GB; GB(Residence); GB(Nationality)  
(Designated only for: US)

**Patent Applicant/Inventor:**

- **KUMAR Harpal S**  
45 Oak Tree Avenue, Cambridge CB4 1AZ; GB; GB(Residence); GB(Nationality); (Designated only for US)

- **JOHNSON Paul**  
Laneside House, Kingshead Lane, Islip, Oxford OX5 2RZ; GB; GB(Residence); GB(Nationality); (Designated only for: US)
- **LLEWELLYN Michael D**  
9 Misty Meadows, Howard Road, Cambridge CB5 8UR; GB; GB(Residence); GB(Nationality); (Designated only for: US)
- **MULLARKEY William J**  
7 Harper Street, Hindley, Wigan WN2 3HL; GB; GB(Residence); GB(Nationality); (Designated only for: US)
- **NEW William Jr**  
95 Skywood Way, Woodside, CA 94062-4839; US; US(Residence); US(Nationality); (Designated only for: US)
- **NICOLSON Laurence J**  
Flat 10, Heywood Court, Heywood Road, Liverpool L15 7LS; GB; GB(Residence); GB(Nationality); (Designated only for: US)
- **O'BRIEN William G**  
4 High Street, Chrishall, Royston, Herts SG8 8RP; GB; GB(Residence); GB(Nationality); (Designated only for: US)
- **PLACE John D**  
Vicarage Farm, Upthorne Road, Stanton, Bury St. Edmunds, Suffolk IP31 2AP; GB; GB(Residence); GB(Nationality); (Designated only for: US)
- **RELPH Peter M**  
15 Church Mead, Roydon, Essex CM19 5EY; GB; GB(Residence); GB(Nationality); (Designated only for: US)

**Legal Representative:**

- **DUNNAM Michael P(et al)(agent)**  
Woodcock Washburn Kurtz Mackiewicz & Norris LLP, 46th floor, One Liberty Place, Philadelphia, PA 19103; US;

	Country	Number	Kind	Date
Patent	WO	200062664	A1	20001026
Application	WO	2000US9491		20000411
Priorities	US	99292405		19990415

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;  
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; SD; SL; SZ; TZ; UG;  
ZW;



[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 28981

**Detailed Description:**

...settings, must be designed to minimize interference between radio signals.

Corresponding methods of collecting **patient's** vital signs **data** using the 3 0 **remote telemetry system** of the invention are also described and claimed herein.

**BRIEF DESCRIPTION OF THE DRAWINGS**

The...

25/3K/5 (Item 3 from file: 349) [Links](#)

PCT FULLTEXT

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00567156

**WORLD WIDE PATIENT LOCATION AND DATA TELEMETRY SYSTEM FOR IMPLANTABLE MEDICAL DEVICES**

SYSTEME DE LOCALISATION MONDIALE D'UN PATIENT ET DE TELESURVEILLANCE DE DONNEES POUR DISPOSITIFS MEDICAUX IMPLANTABLES

**Patent Applicant/Patent Assignee:**

- **MEDTRONIC INC**; 7000 Central Avenue Northeast, Minneapolis, MN 55432  
US; US(Residence); US(Nationality)

**Legal Representative:**

- **ATLASS Michael B(et al)(agent)**  
Medtronic, Inc. MS301, 7000 Central Avenue Northeast, Minneapolis, MN 55432; US;

	Country	Number	Kind	Date
Patent	WO	200030529	A1	20000602
Application	WO	99US26390		19991109
Priorities	US	98198623		19981124

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE;

Publication Language: English

Filing Language: English

Fulltext word count: 13121

**Detailed Description:**

...range extending outside the patient's body a predetermined distance sufficient to receive and transmit **coded telemetry** communications at a distance from the **patient's** body; and an **external** patient communications control **device** adapted to be located in relation to the patient within the device transceiving range having...

25/3K/6 (Item 4 from file: 349) [Links](#)

PCT FULLTEXT

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00508416

**IMPLANTABLE DEVICE WITH DIGITAL WAVEFORM TELEMETRY**

**DISPOSITIF IMPLANTABLE A TELEMETRIE PAR SIGNAL NUMERIQUE**

**Patent Applicant/Patent Assignee:**

- **INTERMEDICS INC;**

	<b>Country</b>	<b>Number</b>	<b>Kind</b>	<b>Date</b>
Patent	WO	9939768	A1	19990812
Application	WO	99US2660		19990205
Priorities	US	9820278		19980206

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English

Filing Language:

Fulltext word count: 7609

**Detailed Description:**

...implantable device as may be required from time to time due to evolution of the patient's condition

**Data** exchange between an implantable **device** and a **remote**, outside **device** is often accomplished by "waveform **telemetry**" in which the **data** is conveyed through the **patient's** tissue and skin. Early waveform **telemetry** systems employed in implantable cardiac stimulators transmitted signals through analog encoding. For example, in one...

25/3K/7 (Item 5' from file: 349) [Links](#)

PCT FULLTEXT

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00477396

**IMPLANTABLE MEDICAL DEVICE WITH AUTOMATED LAST SESSION IDENTIFICATION**  
**SYSTEME MEDICAL IMPLANTABLE A IDENTIFICATION AUTOMATISEE DE DERNIERE SESSION**

**Patent Applicant/Patent Assignee:**

- **MEDTRONIC INC;**

	Country	Number	Kind	Date
Patent	WO	9908748	A1	19990225
Application	WO	98US15688		19980729
Priorities	US	9755900		19970815
	US	9815125		19980129

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language:English

Filing Language:

Fulltext word count: 6396

**Claims:**

...implantation within a patient's body, comprising:

means for detecting occurrences of events within said patient's body; **telemetry** means for transmitting stored **information** from said **device** to an **external device** in response to requests from said external device; first memory means for storing information with...

25/3K/8 (Item 6 from file: 349) [Links](#)

PCT FULLTEXT

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00448445

**METHOD, APPARATUS, AND OPERATING SYSTEM FOR REAL-TIME MONITORING AND  
MANAGEMENT OF PATIENTS' HEALTH STATUS AND MEDICAL TREATMENT REGIMENS  
PROCEDE, DISPOSITIF ET SYSTEME D'EXPLOITATION POUR LA SURVEILLANCE ET LA GESTION  
TEMPS REEL DE L'ETAT DE SANTE ET DES SCHEMAS POSOLOGIQUES DE TRAITEMENTS  
MEDICAUX DES PATIENTS**

**Patent Applicant/Patent Assignee:**

- **INFORMEDIX INC;**  
;;
- **KEHR Bruce A;**  
;;
- **BENSON Robert H;**  
;;
- **SOHN Evan;**  
;;
- **STARNES James E;**  
;;
- **MAURER David;**  
;;
- **STOWELL Davin;**  
;;
- **CHAPMAN Dean;**  
;;
- **FARRAGE David;**  
;;
- **BAUMEL Irwin D;**  
;;
- **STEMPLER David S;**

	Country	Number	Kind	Date
Patent	WO	9838909	A1	19980911
Application	WO	98US3933		19980306
Priorities	US	9740128		19970307
	US	9744472		19970418
	US	9751389		19970701
	US	97924917		19970908
	US	97955952		19971022
	US	9768473		19971222

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English

Filing Language:

Fulltext word count: 17933

**Detailed Description:**

...concerning the patient's adherence to a medical treatment regimen; and/or (5) any other **data** relating to any aspect of the **patient's** health or general quality of life. The **remote device** 100 polls the medical monitoring device by **communicating** via a **wireless** means, and retrieves the desired information from the medical monitoring device's memory. In cases...

**Claims:**

...display of treatment messages on the display; and a receiver for receiving data from a **remote device** via a **wireless** means, said **receiver receives data** relating to the **patient's** health status and the medical treatment regimen; and, wherein, after receiving the data, the...

25/3K/9 (Item 7 from file: 349) [Links](#)

PCT FULLTEXT

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00409597

**ARCHITECTURE FOR TDMA MEDICAL TELEMETRY SYSTEM**

**ARCHITECTURE POUR SYSTÈME DE TÉLÉMÉTRIE MÉDICALE AMRT**

**Patent Applicant/Patent Assignee:**

- **VITALCOM INC;**

;;

	Country	Number	Kind	Date
Patent	WO	9800056	A1	19980108
Application	WO	97US8337		19970516
Priorities	US	96675594		19960702

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English

Filing Language:

Fulltext word count: 14070

**Claims:**

...The communications system according to Claim 41, wherein at least some of the wireless communications devices are **remote telemetry devices** which collect and transmit physiological data of respective patients.

47 A method of **transferring data** from a **wireless** communications device to a centralized node so as to provide protection against multi-path interference...

25/3K/10 (Item 8 from file: 349) [Links](#)

PCT FULLTEXT

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00360383

**WORLDWIDE PATIENT LOCATION AND DATA TELEMETRY SYSTEM FOR IMPLANTABLE MEDICAL DEVICES**

LOCALISATION MONDIALE D'UN PATIENT ET SYSTEME DE TELEMETRIE DE DONNEES POUR APPAREILLAGES MEDICAUX IMPLANTABLES

**Patent Applicant/Patent Assignee:**

- **MEDTRONIC INC;**

	Country	Number	Kind	Date
Patent	WO	9700708	A1	19970109
Application	WO	96US10325		19960613
Priorities	US	95494218		19950623

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English

Filing Language:

Fulltext word count: 9661

**Detailed Description:**

...range extending outside the patient's body a predetermined distance sufficient to receive and transmit **coded telemetry** communications at a distance from the **patient's** body; and an **external** patient communications control **device** adapted to be located in relation to the patient within the device transceiving range having...

**Claims:**

...range extending outside the patient's body a predetermined distance sufficient to receive and transmit **coded telemetry** communications at a distance from the **patient's** body; and providing an **external** patient communications control **device** adapted to be located in relation to the patient within the device transceiving range for...range extending outside the patient's body a predetermined distance sufficient to receive and transmit **coded telemetry** communications at a distance from the **patient's** body; and an **external** patient communications control **device** adapted to be located in relation to the patient within the device transceiving range for...



28/3,K/3 (Item 1 from file:621) [Links](#)

Gale Group New Prod. Annou.(R)

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03879803 **Supplier Number: 126675462 (USE FORMAT 7 FOR FULLTEXT)**

**Delphi Medical Introduces Clinical Communication Software.**

PR Newswire , p NA

Jan 4 , 2005

**Language:** English **Record Type:** Fulltext

**Document Type:** Newswire ; Trade

**Word Count:** 908

...IVantage, an intravenous pump, will also be able to be programmed and monitored from a remote location.

The new software will enable all this patient information to be transmitted directly to a nurse's station computer or a hand-held PDA whether the patient is in a hospital, at home, or at an extended care facility...

? t /3,k/all

32/3,K/1 (Item 1 from file:16) [Links](#)

Gale Group PROMT(R)

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01200570 **Supplier Number: 41379382 (USE FORMAT 7 FOR FULLTEXT)**

**Bedside Systems: Is Support a Mirage?**

HealthWeek , p 51

June 11 , 1990

**Language:** English **Record Type:** Fulltext

**Document Type:** Magazine/Journal ; Trade

**Word Count:** 2503

...in modules, so hospitals can pick and choose among features. The computer terminal has a touch screen, as well as an optional handheld unit with a bar-code reader. A nurse typically waves the bar-code reader across a patient's wristband before entering data, guaranteeing that the information is entered on the correct person. The system costs \$5,000...

? t /3,k/all

34/3,K/1 (Item 1 from file:16) **Links**

Gale Group PROMT(R)

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09225216 **Supplier Number: 80295260 (USE FORMAT 7 FOR FULLTEXT)**

**Stanford University Medical Center Successfully Delivers Radiological Images to Handheld Devices Using Clarinet Systems' Infrared Technology.**

Business Wire , p 0280

Nov 26 , 2001

**Language:** English **Record Type:** Fulltext

**Document Type:** Newswire ; Trade

**Word Count:** 496

...the need for hard copies or making a trip to the radiology department for film.

Physicians are relying more and more on handheld devices for patient data, medical references and scheduling. With Clarinet System's EthIR STAR, healthcare professionals can connect to the...

34/3,K/3 (Item 1 from file:621) [Links](#)

Gale Group New Prod. Annou. (R)

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03055905 **Supplier Number: 80295260 (USE FORMAT 7 FOR FULLTEXT)**

**Stanford University Medical Center Successfully Delivers Radiological Images to Handheld Devices Using Clarinet Systems' Infrared Technology.**

Business Wire , p 0280

Nov 26 , 2001

**Language: English Record Type: Fulltext**

**Document Type: Newswire ; Trade**

**Word Count: 496**

...the need for hard copies or making a trip to the radiology department for film.

Physicians are relying more and more on handheld devices for patient data, medical references and scheduling. With Clarinet System's EthIR STAR, healthcare professionals can connect to the...

34/3,K/4 (Item 1 from file:9) Links

Business & Industry(R)

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01935132 Supplier Number: 25381472 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Identifying New Uses for Bar Coding Technology**

**( Only 5% of hospitals currently use bar coding technology, but use is expected to rise substantially over next 2 yrs; West Park Hospital (Canada) uses wireless medication management system from Autros Healthcare Solutions Inc (Canada) )**

Health Data Management , v 7 , n 8 , p 66+

August 1999

**Document Type:** Journal **ISSN:** 1069-5699 ( United States )

**Language:** English **Record Type:** Fulltext

**Word Count:** 2545

**ABSTRACT:**

...number of health care organizations would be using bar coding technology now if manufacturers of **medical devices** and supplies used universal product numbers. **Nurses** at West Park Hospital (Toronto) use wireless **hand-held** scanning devices to read **barcodes** on **patients'** medication records. **The information** is transmitted to a ceiling-mounted antenna via radio-frequency waves where the data are...

36/3,K/2 (Item 1 from file:636) [Links](#)

Gale Group Newsletter DB(TM)

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03915935 **Supplier Number: 50134717 (USE FORMAT 7 FOR FULLTEXT)**

**FDA Grants Approval Rating To Data Critical's StatView Technology**

Communications Today , p N/A

April 14 , 1998

**Language:** English **Record Type:** Fulltext

**Article Type:** Article

**Document Type:** Magazine/Journal ; Trade

**Word Count:** 208

StatView can transmit and display electrocardiogram waveforms via a handheld wireless receiver, enabling nurses to view vital information on patients and respond to changes in their conditions quickly and cost-effectively.

Measuring about the size...

36/3,K/3 (Item 2 from file:636) [Links](#)

Gale Group Newsletter DB(TM)

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03403471 **Supplier Number: 47005898 (USE FORMAT 7 FOR FULLTEXT)**

**Demands for better care, cutting costs spur telemedicine's growth**

The BBI Newsletter , v 20 , n 1 , p N/A

Jan 1 , 1997

**Language:** English **Record Type:** Fulltext

**Document Type:** Newsletter ; Trade

**Word Count:** 3815

...of infrared patient and staff locators, and cellular communications in portable nursing stations carried by nurses as hand-held personal data assistants will change the face of in-patient telemetry monitoring just as Criticare's introduction of the MPT transceiver and telecommunications connections will extend...

36/3K/4 (Item 1 from file: 349) [Links](#)

PCT FULLTEXT

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01536996

**SELF-REGULATING GASTRIC BAND**

**BANDE GASTRIQUE A AUTOREGULATION**

**Patent Applicant/Patent Assignee:**

- **INAMED MEDICAL PRODUCTS CORPORATION**; 5540 Ekwill Street, Santa Barbara, California 93111  
US; US (Residence); US (Nationality)  
(For all designated states except: US)
- **BIRK Janel**; 1110 Nightingale Place, Oxnard, California 93036  
US; US (Residence); US (Nationality)

**Patent Applicant/Inventor:**

- **BIRK Janel**  
1110 Nightingale Place, Oxnard, California 93036; US; US (Residence); US (Nationality);

**Legal Representative:**

- **VAN BUSKIRK Tedd et al(agent)**  
HOGAN & HARTSON LLP, 875 Third Avenue, New York, New York 10022; US;

	Country	Number	Kind	Date
Patent	WO	200781304	A2	20070719
Application	WO	2006US13		20060104

**Designated States:** (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;  
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;  
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;  
IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC;  
LK; LR; LS; LT; LU; LV; LY; MA; MD; MG;  
MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ;  
OM; PG; PH; PL; PT; RO; RU; SC; SD; SE;  
SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT;  
TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM;  
ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;  
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;  
LV; MC; NL; PL; PT; RO; SE; SI; SK; TR;



[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language English

Filing Language: English

Fulltext word count: 15340

**Detailed Description:**

...allow an operator to program (or read/determine) the implant to contain in memory important **information** such as the band size, **patient's** name, implanting **physician**, and the date it is implanted. The **handheld** may communicate with the sensor via **telemetry** through radiowaves. The FDA and globally recognized communications band (WMTS 402-405 Mhz) may be...

/3,k/all

38/3,K/1 (Item 1 from file:15) [Links](#)

Fulltext available through: [ScienceDirect](#)

ABI/Inform(R)

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01818906 04-69897

**Get patient information anytime, anywhere**

Murchison, Rhonda Shaw

Nursing Management v30n5 pp: 19-20

May 1999

**ISSN: 0744-6314 Journal Code: NSM**

**Word Count: 968**

**Text:**

...This can enable continuous monitoring when a patient goes to an ancillary department for testing.

Remote access devices such as handheld nurse call systems give nurses realtime access to patient data. Unit staff can use the devices with monitoring systems to notify the nurse of the...

? show files

[File 344] **Chinese Patents Abs** Jan 1985-2006/Jan  
(c) 2006 European Patent Office. Allrights reserved.

[File 347] **JAPIO** Dec 1976-2007/Mar(Updated 070809)  
(c) 2007 JPO & JAPIO. All rights reserved.

[File 350] **Derwent WPIX** 1963-2007/UD=200756  
(c) 2007 The Thomson Corporation. All rights reserved.

*\*File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit <http://www.diabg.com/dwpi/>.*

[File 371] **French Patents** 1961-2002/BOPI 200209  
(c) 2002 INPI. All rts. reserv. All rights reserved.  
*\*File 371: This file is not currently updating. The last update is 200209.*

[File 2] **INSPEC** 1898-2007/Aug W4  
(c) 2007 Institution of Electrical Engineers. Allights reserved.

[File 35] **Dissertation Abs Online** 1861-2007/Jul  
(c) 2007 ProQuest Info&Learning. All rghts reserved.

[File 65] **Inside Conferences** 1993-2007/Sep 04  
(c) 2007 BLDSC all rts. reserv. All rights reserved.

[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2007/Jul  
(c) 2007 The HW Wilson Co. Allrights reserved.

[File 256] **TecInfoSource** 82-2007/Feb  
(c) 2007 Info.Sources Inc. Allrights reserved.

[File 474] **New York Times Abs** 1969-2007/Sep 07  
(c) 2007 The New York Times. All rights reserved.

[File 475] **Wall Street Journal Abs** 1973-2007/Sep 06  
(c) 2007 The New York Times. All rights reserved.

[File 583] **Gale Group Globalbase(TM)** 1986-2002/Dec 13  
(c) 2002 The Gale Group. All rights reserved.  
*\*File 583: This file is no longer updating as of 12-13-2002.*

[File 23] **CSA Technology Research Database** 1963-2007/Jul  
(c) 2007 CSA. All rights reserved.

[File 139] **EconLit** 1969-2007/Aug  
(c) 2007 American Economic Association. Allrights reserved.

[File 56] **Computer and Information Systems Abstracts** 1966-2007/Aug

(c) 2007 CSA. All rights reserved.

; d s

Set	Items	Description
S1	329108	S ELECTRONIC()DEVICE? ? OR TOUCH()SCREEN()DEVICE? ? OR S POCKET?? OR PALM()TOP?? OR PALMTOP?? OR PALM(2N)PILOT?? OR HANDSPRING?? OR HAND()SPRING?? OR HANDHELD?? OR HAND()HELD?? OR POCKETPC OR POCKET()PC OR HANDHELD()DIGITAL()ORGANIZER?? OR PDA OR (PORTABLE?? OR PERSONAL??)()DIGITAL()ASSISTANT? ? OR PORTABLE()COMPUT???()DEVICE? ?
S2	683034	S CAMERA? ? OR CCD OR CHARGE()COUPLED()DEVICE
S3	17470	S TOUCH(3N)(SCREEN? ? OR DISPLAY? ?) OR TOUCHSCREEN? ? OR TOUCHDISPLAY? ?
S4	75822	S TRAVELL??? (3N)HEALTHCARE(3N)WORKER? ? OR NURSE? ? OR HOMECARE? ? OR PHYSICIAN? ?
S5	73773	S (PLANS OR PLAN OR PLANNING OR ORGANI???? OR MAK??? OR CREAT??? OR DEVELOP???) (7N)(SCHEDUL??? OR TIMING OR INTERVAL? ? OR REGIMEN? ? OR ROUTINE OR TIMETABLE? ? OR TIMELINE OR VISIT? )
S6	204	S INCORPORAT?()SCHEDUL? OR MAP()SOFTWARE? ?
S7	70238	S (IMPLANT? OR MEDICAL) (3N)DEVICE? ? OR PACEMAKER? ? OR DRUG()INFUSION()PUMP? ?
S8	156303	S WIRELESS(3N)(DOWNLOAD? OR UPLOAD? OR RECEIV? OR SUBMITTING OR SUBMIT OR SEND OR SENDING OR TRANSFER OR TRANSFERRING OR FORWARD OR FORWARDING OR PASS??? OR TRANSMIT OR TRANSMITTING OR COMMUNICAT???) OR TELEMETRY
S9	215947	S (REMOTE OR DISTANT OR FARAWAY OR FAR()AWAY OR OFFSITE) (3N)(LOCATION OR PLACE OR POINT OR DEVICE? OR APPARATUS OR SYSTEM? ? OR GADGET? ? OR EQUIPMENT?? ) OR EXTERNAL (3N)(DEVICE? ? OR PROGRAMER? ?)
S10	39311	S (PATIENT? ? OR INPATIENT? ? OR OUTPATIENT? ? OR (TREATED OR TREATMENT? ? OR SICK OR INJUR?? OR OPERATED OR OPERATION OR HOSPITALI???)() (PERSON? ? OR PEOPLE OR RESIDENT? ?)) (7N)(INFO OR INFORMATION? ? OR DATA OR CODE? ?)
S11	12073	S AU=( THOMPSON, D? OR THOMPSON D? OR THOMPSON(2N)D?)
S12	60	S S11 AND S1
S13	1	S S12 AND S4
S14	26614	S S1 AND (S2:S3)
S15	37	S S14 AND S4
S16	7	S S15 AND S8
S17	719	S S1 AND S4
S18	244	S S17 AND S10
S19	24	S S18 AND S9
S20	23	S S19 NOT (S13 OR S16)
S21	1475	S S10 AND S9
S22	271	S S21 AND S4
S23	56	S S22 AND S8
S24	35	S S23 AND S7
S25	31	S S24 NOT (S13 OR S16 OR S20)
S26	4	S S25 NOT PY>2000
S27	1696	S S7 AND S8
S28	155	S S27 AND S4
S29	28	S S28 AND S1
S30	21	S S29 NOT (S26 OR S13 OR S16 OR S20)

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? t /3,k/all

13/3,K/1 (Item 1 from file:350) [Links](#)

Derwent WPIX

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0014458857 *Drawing available*

WPI Acc no: 2004-650044/200463

XRPX Acc No: N2004-514024

**Monitoring apparatus for events on board aircraft, has latching mechanism, which activates communication system to stream collected video and audio data from monitoring device to external location**

Patent Assignee: BOEING CO (BOEI); BRINKLEY R R (BRIN-I); LEE D R (LEED-I); MITCHELL T M (MITC-I); PRICE J L (PRIC-I); THOMSON D A (THOM-I)

Inventor: BRINKLEY R R; LEE D R; MITCHELL T M; PRICE J L; **THOMPSON D A**; THOMSON D A

Patent Family ( 3 patents, 106 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040160340	A1	20040819	US 2003368166	A	20030217	200463	B
WO 2004074097	A1	20040902	WO 2004US4181	A	20040212	200463	E
US 6937164	B2	20050830	US 2003368166	A	20030217	200557	E

Priority Applications (no., kind,date): US 2003368166 A 20030217

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20040160340	A1	EN	11	5	
WO 2004074097	A1	EN			
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW				
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW				

...Inventor: **THOMPSON D A** **Alerting Abstract** DESCRIPTION - A pressing panic button (12) in a **personal digital assistant** (14) having touch-sensitive area of a screen (18) is configured to activate the latching....be helpful to control unexpected and otherwise unpredictable passenger initiated events. Provided medical information to **physicians** on the ground or at a specified location who can provide help for treatment of....14 **Personal digital assistant** Original Publication Data by Authority...Inventor name & address: **THOMPSON, Deane, A**

? t /3,k/all

16/3,K/1 (Item 1 from file:350) [Links](#)

Derwent WPIX

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0015037816 *Drawing available*

WPI Acc no: 2005-385817/200539

XRPX Acc No: N2005-312959

**Portable medical information device for use by physicians, comprises electronics for determining environment in which device is being used, to accordingly vary graphical user interface displayed on touchscreen**

Patent Assignee: COHEN D G (COHE-I); DE ZWART A (DZWA-I); FREEMAN G A (FREE-I); KURUCZ F (KURU-I); ZOLL MEDICAL CORP (ZOLL-N)

Inventor: COHEN D G; DE ZWART A; FREEMAN G A; KURUCZ F; COHEN D; FREEMAN G

Patent Family ( 3 patents, 107 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2005043303	A2	20050512	WO 2004US34652	A	20041020	200539	B
US 20050204310	A1	20050915	US 2003512908	P	20031020	200561	E
			US 2004969810	A	20041020		
EP 1683038	A2	20060726	EP 2004795768	A	20041020	200649	E
			WO 2004US34652	A	20041020		

Priority Applications (no., kind,date): US 2004969810 A 20041020; US 2003512908 P 20031020

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2005043303	A2	EN	23	6		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW					
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
US 20050204310	A1	EN			Related to Provisional	US 2003512908
EP 1683038	A2	EN			PCT Application	WO 2004US34652
					Based on OPI patent	WO 2005043303
Regional Designated States,Original	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR					

**Portable medical information device for use by physicians, comprises electronics for determining environment in which device is being used, to accordingly vary graphical user interface displayed on touchscreen** Alerting Abstract ... The portable device comprises the electronics for displaying a graphical user interface (2) on a touch screen (3), and for responding to the user inputs entered on the device, and the electronics... USE - Portable medical information device with dynamically configurable user interface, such as **personal digital assistant ( PDA)**, tablet personal computer (PC) and laptop computer, for electronically recording medical information such as treatments... or physiological condition of patient, used by trained emergency service providers such as paramedics or **physicians, nurses** in hospital, police officers, emergency medical technicians (EMTs), fire departments... DESCRIPTION OF DRAWINGS - The figure shows a depiction of the **personal digital assistant**. ... 3 touch screen Technology Focus INDUSTRIAL STANDARDS - The portable medical information terminal performs **wireless communication** according to **Bluetooth** and IEEE 802.11 standards. Original Publication Data by Authority **Original Abstracts:** A portable **electronic device** for recording **medical data**, including a display, electronics for displaying a user interface on the display and for responding... A portable **electronic device** for recording medical data, including a display, **electronics for** displaying a user interface on the display and for responding to user inputs entered on... A portable **electronic device** for recording medical data, including a display, electronics for displaying a user interface on the display and for responding to user inputs entered on the device, and electronics for. **Claims: 1.** A portable **electronic device** for recording **medical data**, comprising a display; electronics for displaying a user interface on the display, and for responding...

16/3,K/2 (Item 2 from file:350) [Links](#)

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0014794733 *Drawing available*

WPI Acc no: 2005-142419/200515

XRFX Acc No: N2005-121163

**Mobile communication device e.g. cell phone with mobile-care giving function, has short-range wireless transceiver to communicate with proxy server which establishes communication with remote service provider**

Patent Assignee: UNIV FLORIDA RESFOUND INC (UYFL)

Inventor: ARSLAN B; EL ZABADANI H M; GIRALDO C M; GUPTA A; HALDAVNEKAR N A; HELAL A A ;  
HELAL A G; HIDALGO A E; KADDOURA Y O; KUCHIBHOTLA S C; MALIK M; MANN W C; MOORE S E;  
RAMACHANDRAN B; RAN Y L; TIAN J; VOKKAARNE V

Patent Family ( 13 patents, 10 6 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2005008914	A1	20050127	WO 2004US22288	A	20040712	200515	B
US 20050035854	A1	20050217	US 2003486018	P	20030710	200515	E
			US 2003490717	P	20030729		
			US 2004889438	A	20040712		
US 20050038860	A1	20050217	US 2003486018	P	20030710	200515	E
			US 2003490717	P	20030729		
			US 2004889161	A	20040712		
US 20050057357	A1	20050317	US 2003486018	P	20030710	200521	E
			US 2003490717	P	20030729		
			US 2004889147	A	20040712		
US 20050057361	A1	20050317	US 2003486018	P	20030710	200521	E
			US 2003490717	P	20030729		
			US 2004889162	A	20040712		
US 20050060088	A1	20050317	US 2003486018	P	20030710	200521	E
			US 2003490717	P	20030729		
			US 2004889156	A	20040712		
US 20050071879	A1	20050331	US 2003486018	P	20030710	200524	E
			US 2003490717	P	20030729		
			US 2004889187	A	20040712		
US 20050062637	A1	20050324	US 2003486018	P	20030710	200526	E
			US 2003490717	P	20030729		
			US 2004889155	A	20040712		
US 20050101250	A1	20050512	US 2003486018	P	20030710	200532	E
			US 2003490717	P	20030729		
			US 2004889533	A	20040712		
US 20050132047	A1	20050616	US 2003486018	P	20030710	200540	E
			US 2003490717	P	20030729		



- 16/3,K/3 (Item 3 from file:350) [Links](#)
- Derwent WPIX
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0014751930 *Drawing available*  
WPI Acc no: 2005-099561/200511  
XRPX Acc No: N2005-086425

**Object e.g. human being, weighing method, involves transmitting corrected weight of object and unit identification by transmission device to receiver over Internet, and recording transmitted data into account identification file**

Patent Assignee: ELDEIRY S K (ELDE-I)  
Inventor: ELDEIRY S K

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050006152	A1	20050113	US 2003613153	A	20030707	200511	B

Priority Applications (no., kind,date): US 2003613153 A 20030707

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20050006152	A1	EN	6	1	

**Alerting Abstract** ...along with a unit identification are recorded into the account ID file, thus enabling **physician** to monitor the patient's weight when the weighed object is a human being, and Original Publication Data by Authority...**Original Abstracts:** could be of unimaginable security value especially if the devices are globally marketed. Adding a **camera** or video **camera would** perhaps be a luxury that increases the cost of production but also enhances security. Adding sensors such as... .. and portable or huge and fixed to a location. A receiver can be a portable **hand held** device, a **telephone** or a stationary computer or a laptop. Transmission is basically performed by an electronic transmission device..... or any receiver device and vice versa using end to end wireless data transmission protocol. **Every transmitting** device within a scale is programmed for a specific goal that is defined by the...  
...**Claims:** a computer disc inside the scale. Automatic wireless data transmission optionally including pictures recorded by **camera** or video **camera** or scanned account and unit id **when** applicable, to an intranet, web site on the Internet such as weighntel.com or any authorized licensed **receiver** device. Secure **wireless** transmission of data includes ID data, **date**, time, and **recorded** weight, and including pictures recorded by **camera** or video **camera** when applicable. American and or international **measuring** systems or **both** may be used to record weights plus any other data that can be pre-programmed... .. packet" to the wireless transmission device. This in turn sends the secure file packet to the **receiving** end on the intranet, Internet or on another device such as a telephone. Definitions: Account...

16/3,K/4 (Item 4 from file:350) [Links](#)

Derwent WPIX

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0012468043 *Drawing available*

WPI Acc no: 2002-414377/200244

Related WPI Acc No: 1999-142348; 2002-403747; 2002-425237; 2002-425238; 2002-434099; 2002-434320; 2002-470369; 2002-739834; 2003-220437; 2005-701194

XRPX Acc No: N2002-325801

**Data acquisition and retrieval system for hospital, business use, has communication server to convert message list from command server obtained by accessing database in response to input message into specified format**

Patent Assignee: DONAHUE B (DONA-I); METROLOGIC INSTR INC (METR-N); SIMMON A (SIMM-I)

Inventor: DONAHUE B; SIMMON A

Patent Family ( 2 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020032560	A1	20020314	US 1994196452	A	19940214	200244	B
			US 1999241214	A	19990201		
			US 2001823247	A	20010330		
US 6507868	B2	20030114	US 1994196452	A	19940214	200313	E
			US 1999241214	A	19990201		
			US 2001823247	A	20010330		

Priority Applications (no., kind,date): US 1999241214 A 19990201; US 1994196452 A 19940214; US 2001823247 A 20010330

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20020032560	A1	EN	34	19	Continuation of application	US 1994196452
					Continuation of application	US 1999241214
					Continuation of patent	US 5867688
US 6507868	B2	EN			Continuation of application	US 1994196452
					Continuation of application	US 1999241214
					Continuation of patent	US 5867688
					Continuation of patent	US 6389477

**Alerting Abstract ...NOVELTY** - A communication server (12) receives the information packets in a specified format from **handheld** interfaces (8) and converts the packets to a different format to construct a message and...

**DESCRIPTION** - An **INDEPENDENT CLAIM** is also included for **wireless** packet data **communication** network...

**...ADVANTAGE** - The communication server synchronizes its operations with those of the **handheld** interfaces to minimize the excess data such as user ID, time, date, authorization code necessary for transmission. The system allows

the doctor, nurse and staff member of the hospital to immediately access the clinical data, even after clinic... ..8

**Handheld interfaces...** Original Publication Data by Authority: **Original Abstracts:** A wireless packet data communication network that enables wireless communication among a plurality of users within a work environment having one or more regions. The network includes a plurality of database command servers each of which is interfaced by way of a communication bus. A plurality of wireless handheld bar code driven data terminals are interfaced with the communication servers by way of a plurality of wireless communication channels. Each wireless handheld bar code driven data terminal has a graphical user interface including a touch-sensitive display device, an integral bar code symbol reader, and a wireless communication interface device for enabling wireless data packet communication between the wireless handheld bar code driven data terminal and one communication server. In addition, the network preferably includes a master database for maintaining a backup copy of each said database... .. servers. A communication network is preferably realized within the work environment, for enabling data packet communication between wireless handheld bar code driven data terminals and/or data packet communication between the master information server and the plurality of...

... Ac wireless packet data communication network that enables wireless communication among a plurality of users within a work environment having one or more regions. The network includes a plurality of database command servers each of which is interfaced by way of a communication bus. A plurality of wireless handheld bar code driven data terminals are interfaced with the communication servers by way of a plurality of wireless communication channels. Each wireless handheld bar code driven data terminal has a graphical user interface including a touch-sensitive display device, an integral bar code symbol reader, and a wireless communication interface device for enabling wireless data packet communication between the wireless handheld bar code driven data terminal and one communication server. In addition, the network preferably includes a master database for maintaining a backup copy of each said database... .. servers. A communication network is preferably realized within the work environment, for enabling data packet communication between wireless handheld bar code driven data terminals and/or data packet communication between the master information server and the plurality of communication servers. The work environment may be... ..

**Claims:** What is claimed is: 1. A data acquisition and retrieval system having wireless handheld interfaces for user entry of data, said system comprising: a data base for storing data input by said user; a command server for managing said data base; a communications server for receiving and transmitting packets of information to and from said handheld interfaces, said packets being constructed in a first format having a header and a data segment, said communications server converting packets to a second format and constructing a message therefrom; said communications server returning said message to said first format of said packets and transmitting said packets to said handheld interfaces, said handheld interface using a touch pad for allowing the user to enter data by contacting virtually defined regions on said touch pad... ..

What is claimed is: 1. A wireless packet data communication network for enabling wireless communication among a plurality of users within a work environment having one or more regions, wherein each said user is provided with a wireless handheld bar code driven data terminal that can be carried about within said work environment, said packet data communication network comprising: a plurality of databases, each said database containing information accessible by users working in said work environment; a plurality of database command servers each of which is interfaced with said command servers, and a plurality of wireless handheld bar code driven data terminals interfaced with said communication servers by way of a plurality of wireless communication channels, each said wireless handheld bar code driven data terminal having: a graphical user interface for enabling a user to enter and display data into said wireless handheld bar code driven data terminal using graphical indicia, said graphical user interface including a touch-sensitive display device for enabling manual data entry by a user and visual display of data to the user; a bar code symbol reader integrated within said wireless handheld bar code driven data terminal for reading barcode symbols on objects within said work environment so as to gather information pertaining to said objects; a wireless communication interface device for enabling wireless data packet communication between said wireless handheld bar code driven data terminal and one said communication server over one said wireless communication channel by transmitting and receiving data packets by way of electromagnetic signal transmission and reception; a master database for maintaining a backup copy of each said

- **database**; a master information server for controlling access to said master database and supporting **communication**
- **with** said plurality of database command servers; and a communication network realized within said work environment, for (i) enabling data packet communication between a first one of said plurality of wireless **handheld** bar code driven data terminals and a second one of said plurality of **wireless handheld** bar code driven data terminal using a pair of said plurality of communication servers so that the users of said first and **second wireless handheld** bar code driven data terminals can **communicate within** said work environment while having access to their respective databases, and (ii) enabling **data packet communication** between said master information server and said plurality of database command servers so that said master information server **can communicate** with each said **database** command server and make a backup copy of each database within said master database.

16/3,K/5 (Item 5 from file:350) [Links](#)

Derwent WPIX

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0011000162 *Drawing available*

WPI Acc no: 2001-625309/200172

Related WPI Acc No: 2004-641236; 2007-200010

XRPX Acc No: N2001-466068

**Patient monitoring using wireless Internet connedions to an Internet enabled web device using radio or infrared communication using off the shelf phone and measuring equipment**

Patent Assignee: Q-TEC SYSTEMS LLC (QTEC-N); Q-TEC SYSTEMS LLP (QTEC-N); QUY R J (QUYR-I)

Inventor: QUY R J

Patent Family ( 12 patents, 29 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001045014	A1	20010621	WO 2000US34159	A	20001216	200172	B
US 20010047125	A1	20011129	US 1999172486	P	19991217	200202	E
			US 2000738270	A	20001215		
EP 1247229	A1	20021009	EP 2000989280	A	20001216	200267	E
			WO 2000US34159	A	20001216		
JP 2003517687	W	20030527	WO 2000US34159	A	20001216	200344	E
			JP 2001546034	A	20001216		
US 6602191	B2	20030805	US 1999172486	P	19991217	200353	E
			US 2000738270	A	20001215		
US 20040030226	A1	20040212	US 1999172486	P	19991217	200412	E
			US 2000738270	A	20001215		
			US 2003418845	A	20030418		
US 6936007	B2	20050830	US 1999172486	P	19991217	200557	E
			US 2000738270	A	20001215		
			US 2003418845	A	20030418		
US 20050228245	A1	20051013	US 1999172486	P	19991217	200567	E
			US 2000738270	A	20001215		
			US 2003418845	A	20030418		
			US 2004773501	A	20040206		
			US 2005156177	A	20050617		
US 20050250995	A1	20051110	US 1999172486	P	19991217	200574	E
			US 2000738270	A	20001215		
			US 2003418845	A	20030418		
			US 2005184274	A	20050718		
JP 2006075593	A	20060323	JP 2001546034	A	20001216	200622	E
			JP 2005247352	A	20050829		
US 7156808	B2	20070102	US 1999172486	P	19991217	200703	E
			US 2000738270	A	20001215		

16/3,K/6 (Item 6 from file:350) [Links](#)

Derwent WPIX

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0010401632 *Drawing available*

WPI Acc no: 2000-664853/200064

XRAM Acc no: C2001-001976

XRPX Acc No: N2001-005511

**Retinal prosthetic device comprises systems for providing stimulation of retina to produce artificial images to brain**

Patent Assignee: GREENBERG R J (GREE-I); MECH B V (MECH-I); SCHULMAN J H (SCHU-I); SECOND SIGHT LLC (SECO-N); SECOND SIGHT MEDICAL PROD INC (SECO-N)

Inventor: GREENBERG R J; GREENBURG R J; MECH B V; SCHULMAN J H; SCHULMAN J

Patent Family ( 20 patents, 89 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2000056393	A1	20000928	WO 2000US5706	A	20000303	200064	B
AU 200038666	A	20001009	AU 200038666	A	20000303	200103	E
EP 1171188	A1	20020116	EP 2000917738	A	20000303	200207	E
			WO 2000US5706	A	20000303		
US 20020038134	A1	20020328	US 1999125873	P	19990324	200225	E
			US 2000515373	A	20000229		
			US 2001976799	A	20011012		
US 20020091421	A1	20020711	US 1999125873	P	19990324	200248	E
			US 2000515383	A	20000229		
			US 200133576	A	20011109		
US 20020091422	A1	20020711	US 1999125873	P	19990324	200248	E
			US 2000515373	A	20000229		
			US 200139837	A	20011018		
US 20020193845	A1	20021219	US 1999125873	P	19990324	200303	E
			US 2000515383	A	20000229		
			US 2002202243	A	20020724		
JP 2002539859	W	20021126	JP 2000606294	A	20000303	200307	E
			WO 2000US5706	A	20000303		
AU 2004235629	A1	20050106	AU 200038666	A	20000303	200510	NCE
			AU 2004235629	A	20041202		
AU 2004235627	A1	20050120	AU 200038666	A	20000303	200512	NCE
			AU 2004235627	A	20041202		
US 20050288733	A1	20051229	US 1999125873	P	19990324	200603	E
			US 2000515373	A	20000229		
			US 2002202243	A	20020724		
			US 2005206482	A	20050817		
US 20050288734	A1	20051229	US 1999125873	P	19990324	200603	E

• **telemetry Alerting Abstract** ...3) a **physician's** control unit... 4) a **physician's hand-held** or palm-size test unit  
 • ...14) a method for enabling a **physician** to control and evaluate the parameters for a retinal color prosthesis... 15) a  
 method for enabling a **physician** to set up the settable parameters of and evaluate the success of a retinal color... 115  
**physician's** controller121 internal implant with **telemetry** circuitry Original Publication Data by Authority **Original**  
**Abstracts:** eye-tracker, a head-motion tracker (131), a data processor, a patient's controller, a **physician's** local, remote  
 controller, and a **telemetry** means (118... an eye-tracker, a head-motion tracker, a data processor, a patient's  
 controller, a **physician's** local controller, a **physician's** remote controller, and a **telemetry** means. The imaging means  
 may include a **CCD** or **CMOS** video camera. It gathers an image of what the eyes would be seeing if they were  
 functional... color image for the patient, corresponding to the original image as seen by the video camera, or other  
 imaging means. The **physician's** test unit can be used to set up or evaluate and test the implant... an eye-tracker, a  
 head-motion tracker, a data processor, a patient's controller, a **physician's** local controller, a **physician's** remote  
 controller, and a **telemetry** means. The imaging means may include a **CCD** or **CMOS** video camera. It gathers an  
 image of what the eyes would be seeing if they were functional... color image for the patient, corresponding to the  
 original image as seen by the video camera, or other imaging means. The **physician's** test unit can be used to set up or  
 evaluate and test the implant... an eye-tracker, a head-motion tracker, a data processor, a patient's controller, a  
**physician's** local controller, a **physician's** remote controller, and a **telemetry** means. The imaging means may include  
 a **CCD** or **CMOS** video camera. It gathers an image of what the eyes would be seeing if they were functional...  
 color image for the patient, corresponding to the original image as seen by the video camera, or other imaging  
 means. The **physician's** test unit can be used to set up or evaluate and test the implant... an eye-tracker, a  
 head-motion tracker, a data processor, a patient's controller, a **physician's** local controller, a **physician's** remote  
 controller, and a **telemetry** means. The imaging means may include a **CCD** or **CMOS** video camera. It gathers an  
 image of what the eyes would be seeing if they were functional... color image for the patient, corresponding to the  
 original image as seen by the video camera, or other imaging means. The **physician's** test unit can be used to set up or  
 evaluate and test the implant... The present invention is an implantable **electronic device** formed within a  
 biocompatible hermetic package. Preferably the implantable **electronic device** is used for a visual prosthesis for the  
 restoration of sight in patients with lost... an eye-tracker, a head-motion tracker, a data processor, a patient's controller,  
 a **physician's** local controller, a **physician's** remote controller, and a **telemetry** means. The imaging means may  
 include a **CCD** or **CMOS** video camera. It gathers an image of what the eyes would be seeing if they were  
 functional... color image for the patient, corresponding to the original image as seen by the video camera, or other  
 imaging means. The **physician's** test unit can be used to set up or evaluate and test the implant... The present  
 invention is an implantable **electronic device** formed within a biocompatible hermetic package. Preferably the  
 implantable **electronic device** is used for a visual prosthesis for the restoration of sight in patients with lost...  
 eye-tracker, a head-motion tracker (131), a data processor, a patient's controller, a **physician's** local, remote controller,  
 and a **telemetry** means (118...

16/3,K/7 (Item 1 from file:2) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

INSPEC

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09766816

**Title:** Instant wireless transmission of radiological images using a personal digital assistant phone for emergency teleconsultation

**Author** Dong-Keun Kim; Yoo, S.K.; Kim, S.H.

**Author Affiliation:** Graduate Sch. of Biomed. Eng., Yonsei Univ., Seoul, South Korea

**Journal:** Journal of Telemedicine and Telecare vol.11, suppl.2 p. S2/58-61

**Publisher:** R. Soc. Med. Press Ltd ,

**Publication Date:** 2005 **Country of Publication:** UK

**CODEN:** JTETFA **ISSN:** 1357-633X

**SICI:** 1357-633X(2005)11+2L:58:IWTR;1-8

**Material Identity Number:** G346-2006-002

**Language:** English

**Subfile:** A B C

Copyright 2006, IEE

**Title:** Instant wireless transmission of radiological images using a personal digital assistant phone for emergency teleconsultation

**Abstract:** ...decisions about emergency patients. We have examined an instant image transfer system based on a personal digital assistant (PDA) phone with a built-in camera. Images displayed on a picture archiving and communication systems (PACS) monitor can be captured by the camera in the PDA phone directly. Images can then be transmitted from an emergency centre to a remote physician via a wireless high-bandwidth network (CDMA 1\*EVDO), We reviewed the radiological lesions in...

**Descriptors:** ...biomedical telemetry;

**Identifiers:** ...personal digital assistant phone



? t /3,k/all

20/3,K/1 (Item 1 from file:350) [Links](#)

Derwent WPIX

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0016868587 *Drawing available*

WPI Acc no: 2007-583649/200756

Related WPI Acc No: 1994-134983; 1995-383132; 1996-496747; 1997-525383; 1998-168289; 1998-251468; 1998-426808; 1998-456711; 1998-568188; 1999-228839; 1999-242495; 1999-287122; 1999-302397; 1999-311681; 1999-347807; 1999-384097; 1999-405126; 1999-417667; 1999-507606; 1999-526845; 1999-539738; 1999-561252; 2000-012778; 2000-061786; 2000-181692; 2000-195149; 2000-223359; 2000-292979; 2000-328448; 2000-338806; 2000-338807; 2000-338954; 2000-423081; 2000-431044; 2000-474547; 2000-498702; 2000-571401; 2000-593531; 2000-655125; 2001-210131; 2001-225710; 2001-307032; 2001-307130; 2001-407641; 2001-513222; 2001-564621; 2001-564962; 2001-578438; 2001-579931; 2001-611417; 2001-624850; 2002-112617; 2002-121382; 2002-170531; 2002-215991; 2002-327599; 2002-360451; 2002-415808; 2002-416321; 2002-433601; 2002-453253; 2002-470164; 2002-527573; 2002-617729; 2003-074907; 2003-657592; 2003-901721; 2004-009535; 2004-131367; 2004-202085; 2004-460441; 2004-467312; 2004-467342; 2004-498296; 2004-498375; 2004-498376; 2004-498377; 2004-708812; 2004-727867; 2004-831489; 2005-179656; 2005-240971; 2005-381858; 2005-394075; 2005-563004; 2005-563005; 2005-724415; 2005-745751; 2005-808853; 2006-037470; 2006-087714; 2006-108007; 2006-108008; 2006-108097; 2006-298552; 2006-341031; 2006-351257; 2006-536906; 2006-619790; 2006-658150; 2006-687504; 2007-015302; 2007-023908; 2007-053252; 2007-081584; 2007-089258; 2007-099375; 2007-108657; 2007-108658; 2007-120746; 2007-136952; 2007-136970; 2007-157487; 2007-171241; 2007-172969; 2007-183533; 2007-183543; 2007-197987; 2007-205627; 2007-238819; 2007-268876; 2007-268877; 2007-268878; 2007-268879; 2007-291083; 2007-341883; 2007-395336; 2007-431366; 2007-444500; 2007-466490; 2007-494365; 2007-504908; 2007-532169; 2007-532439; 2007-532465; 2007-532466; 2007-532705; 2007-558686; 2007-583631; 2007-583650; 2007-584214

XRAM Acc no: C2007-210917

XRFX Acc No: N2007-450391

**Remote patient communicating method for maintaining healthcare, involves transmitting patient information from computer to server, processing information in server and monitoring healthparameter in display unit**

Patent Assignee: BROWN SJ (BROW-I)

Inventor: BROWN S J

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20070118588	A1	20070524	US 1992977323	A	19921117	200756	B
			US 1994233397	A	19940426		
			US 1995481925	A	19950607		
			US 1999237194	A	19990126		
			US 2003605223	A	20030916		
			US 2006562468	A	20061122		

Priority Applications (no., kind,date): US 1992977323 A 19921117; US 1994233397 A 19940426; US 1995481925 A 19950607; US 1999237194 A 19990126; US 2003605223 A 20030916; US 2006562468 A 20061122

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20070118588	A1	EN	20	11	C-I-P of application	US 1992977323
					Continuation of application	US 1994233397
					Continuation of application	US 1995481925
					Continuation of application	US 1999237194
					Continuation of application	US 2003605223
					C-I-P of patent	US 5307263
					Continuation of patent	US 5899855

**Remote patient communicating method for maintaining healthcare, involves transmitting patient information from computer to server, processing information in server and monitoring healthparameter in display unit**  
**Original Titles:**METHOD AND APPARATUS FOR REMOTE HEALTH MONITORING AND PROVIDING HEALTH RELATED INFORMATION  
**Alerting Abstract** ...result, from computers (62) to a server, where the computers correspond to a set of **patients** (58). The **information** in the server is processed and transmitted to a device which corresponds to a **patient**. The **information** which is provided in a clearinghouse (54) by the patient is transmitted to a healthcare...  
**USE** - Used by a doctor, healthcare professional, **physician** and healthcare provider, for communicating with a set of remote patients for maintaining healthcare...  
**ADVANTAGE** - A widespread low cost compact **handheld** video game system is utilized to enable a child to easily operate, and to establish...  
**Original Publication Data by Authority.**  
**Original Abstracts:**for collection of user health monitoring data, an interactive video device, and a user interface **apparatus**; at least one **remote** computing facility configured for signal communication with, and to receive health monitoring data-related signals.

20/3,K/2 (Item 2 from file:350) [Links](#)

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0016798590 *Drawing available*

WPI Acc no: 2007-513652/200750

XRPX Acc No: N2007-393155

**Electronic device for use with e.g. set top box, has electronic modules to acquire and convert signals supplied to device via connectors, and convert data supplied to device to render audio and visual entertainment content**

Patent Assignee: HAMILTON S E (HAMI-I)

Inventor: COOPER R R; HAMILTON S E

Patent Family ( 1 patents, 115 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2007044599	A2	20070419	WO 2006US39280	A	20061006	200750	B

Priority Applications (no., kind,date): US 2005724150 P 20051006

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
WO 2007044599	A2	EN	11	2	
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MY MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW				
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW				

**Electronic device for use with e.g. set top box, has electronic modules to acquire and convert... Alerting**  
**Abstract** ...mechanism e.g. keyboard, conveys information to the device. A set of connectors interfaces the device to external devices, and an electronic computational module processes the computer software instructions. Electronic modules acquire and convert... human physiological/biomedical sensor data acquired by an electronic device nonhuman physiological/biomedical sensor data acquired by an electronic device physical sensor data acquired by an electronic device geophysical sensor data acquired by an electronic device a key for encryption of the data subsequent retransmission of the data or indications via... USE - **Electronic device e.g. Interface Protocol Option Device (iPOD)** (RTM: Not defined), for use with a... or personal computer for rendering for display or audition of stored digital audiovisual entertainment content or patient's data analyzed by a physician via a cable television, Internet Protocol Television (IPTV), or Digital Subscriber Line (DSL) services..... ADVANTAGE - The configuration of the device facilitates to provide a low cost electronic device, with a simple user interface, necessary storage, processing, and communications capabilities. The device can... DESCRIPTION OF DRAWINGS - The drawing shows an illustration of an electronic device. Technology Focus INDUSTRIAL STANDARDS - The electronic device

- 20/3,K/3 (Item 3 from file:350) [Links](#)
- Derwent WPIX
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0016248794 *Drawing available*  
WPI Acc no: 2006-780440/200679  
XRPX Acc No: N2006-603271

# **Healthcare administration system for hospital, uses wireless-fidelity intranet for transmission of patient profile**

Patent Assignee: ECP BOARD (ECPB-N)

Inventor: SLAVEN J L

Patent Family ( 1 patents, 111 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2006102718	A1	20061005	WO 2006AU433	A	20060331	200679	B

Priority Applications (no., kind,date): AU 2005901564 A 20050331

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
WO 2006102718	A1	EN	66	20	
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW				
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW				

**Alerting Abstract** ...NOVELTY - A web server generates and stores **patient** profile by manipulating the **patient information**. The server transmits the stored **patient** profile to **personal digital assistant (PDA)**, through wireless-fidelity (Wi-Fi) intranet. ... method of administering healthcare system; software product for storing program for administering healthcare system; and **PDA**. ... **ADVANTAGE** - The **patient information** is viewed and modified easily from **remote location**, by doctors and **nurses**. Original Publication Data by Authority **Original Abstracts**: A healthcare administration system includes a computer programmed to define a database for storing **patient information** and connected to a network at a central location. At least one wireless communication device... un ordinateur programme de facon a definir une base de donnees destinee a stocker des **informations de patients** et connecte a un reseau a un emplacement central. Au moins un dispositif de communication...

20/3,K/4 (Item 4 from file:350) [Links](#)

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0015599091 *Drawing available*

WPI Acc no: 2006-163260/200617

XRPX Acc No: N2006-140950

**Medical data interface server used in physician communication system, provides medical data interface to remote device and establishes packet-based voice communication link between remote devices**

Patent Assignee: CATALIS INC (CATA-N)

Inventor: DAHLIN M D; LIPSCHER R B; WOHL E

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20060029273	A1	20060209	US 2004598297	P	20040803	200617	B
			US 2005188212	A	20050722		

Priority Applications (no., kind,date): US 2004598297 P 20040803; US 2005188212 A 20050722

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20060029273	A1	EN	14	8	Related to Provisional	US 2004598297

**Medical data interface server used in physician communication system, provides medical data interface to remote device and establishes packet-based voice communication link between remote devices** **Original Titles:**Physician communication systemAlerting Abstract ...memory including medical findings data, stores instructions to provide a medical data interface to a remote wireless interface device (WID) (104) for accessing the medical findings data, and establish packet-based voice communication link... USE- In physician communication system to interact with a medical professional or physician in hospital, using wireless interface of portable computing device such as personal digital assistants (PDA), handheld device and tablet-based or pad-based portable computer... ADVANTAGE - Provides the patient information in the discrete medical data interface presented to the remote users and registers or stores the findings data efficiently. Original Publication Data by Authority...**Original Abstracts:**implemented instructions operable by the processor to provide a medical data interface to a first remote device via the data network and computer implemented instructions operable by the processor to establish a packet-based voice communication link between the first remote device and a second remote device. >...**Claims:**implemented instructions operable by the processor to provide a medical data interface to a first remote device via the data network; and computer implemented instructions operable by the processor to establish a packet-based voice communication link between the first remote device and a second remote device.>

20/3,K/5 (Item 5 from file:350) [Links](#)

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0015126981 *Drawing available*

WPI Acc no: 2005-476513/200548

Related WPI Acc No: 2004-068438

XRPX Acc No: N2005-387745

**Electrical pulse controlling method for treating urological disorder, involves providing software application unit to mobile device to communicate and exchange data, to change parameters of pulses provided by neurostimulator**

Patent Assignee: BOVEJA B R (BOVE-I); WIDHANY A (WIDH-I)

Inventor: BOVEJA B R; WIDHANY A

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050131493	A1	20050616	US 2001837565	A	20010419	200548	B
			US 2003730513	A	20031207		

Priority Applications (no., kind,date): US 2001837565 A 20010419; US 2003730513 A 20031207

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050131493	A1	EN	59	37	C-I-P of application	US 2001837565
					C-I-P of patent	US 6662052

**Alerting Abstract** ...to exchange data. A software application unit is provided to a mobile device e.g **PDA**/cell phone (140) to communicate and exchange the data. Parameters of electric pulses provided by... ..**DESCRIPTION OF DRAWINGS** - The drawing shows a **physician** communicating with a remote patient implanted with a neuro stimulator... Original Publication Data by Authority.. **Original Abstracts:** comprises an implantable stimulator, an interface unit, and a mobile device such as a modified **PDA**/cell phone (or **pocket PC**/cell phone). **The implanted stimulator** may be for vagus nerve(s), sacral plexus, spinal cord or the like. The... .. module. Interrogation and programming of the implanted stimulator may be performed remotely via a modified **PDA**/cell phone over a wide area network. The interface unit at the patient end comprises a telemetry module, and... .. programmer. In one aspect of the invention, in addition to remote interrogation and programming, **patient's clinical data/information**, report, and **invoicing information** can be retrieved from a server, reviewed, and updated on the modified **PDA**/cell phone over a wide area network. ... **Claims:** data, to remotely change parameters of said electric pulses provided by said neurostimulator, whereby said **remote mobile device** controls said implantable neurostimulator.

20/3,K/6 (Item 6 from file:350) [Links](#)

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0014984138

WPI Acc no: 2005-331987/200534

XRAM Acc no: C2005-103173

XRPX Acc No: N2005-271645

**Non-invasive body worn computing platform for capture, processing, analytics, and communication of biosensor data, comprises body worn computing device, interface, processing of biosensor signals, real-time analyzer, and node**

Patent Assignee: GUZZETTA J J (GUZZ-I); WOLFF S B (WOLF-I)

Inventor: GUZZETTA J J; WOLFF S B

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050090754	A1	20050428	US 2003501621	P	20030908	200534	B
			US 2004937535	A	20040908		

Priority Applications (no., kind,date): US 2003501621 P 20030908; US 2004937535 A 20040908

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050090754	A1	EN	9	0	Related to Provisional	US 2003501621

**Technology Focus** ...The mechanism for a body worn computing device include health and system event reporting; local **patient** and remote **physician** alerting; local **data** storage; **data** forwarded and stored on **handhelds**; and data forwarded and stored on servers. The mechanism for interfacing biosensors includes but... computing device casing with mechanism for sealing. The mechanism for nonprotruding small form factor computing **device** casing whose **external** shape and dimensions are non-intrusive. The mechanism for rapid and zero insertion force connector... comprises reporting of health and system events; alerting locally the patient; and alerting remotely the **physician**. It further includes local data storing; data forwarding and storing on **handhelds**; and data forwarding and storing on servers. The updating of software comprises scheduling the update... Original Publication Data by Authority. **Original Abstracts:** analyze, store, biosensor data and communicate health and system events, ECG waves and other biomedical **data** from the **patient** recorded, produced, or analyzed. The non-invasive body worn computing platform operates as a node within a wireless distributed...

20/3,K/7 (Item 7 from file:350) [Links](#)

Derwent WPIX

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0014592895 *Drawing available*

WPI Acc no: 2004-774860/200476

Related WPI Acc No: 2005-033733

XRAM Acc no: C2004-271290

XRPX Acc No: N2004-610411

**Controlling an insulin pump via the Internet by forming Bluetooth modules in an insulin pump, blood sugar level measuring device and personal digital assistant, and linking Bluetooth communication device and personal digital assistant with serve**

Patent Assignee: CHOI S B (CHOI-I)

Inventor: CHOI S B

Patent Family ( 3 patents, 2 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040215492	A1	20041028	US 2004852375	A	20040524	200476	B
KR 2004069608	A	20040806	KR 20036078	A	20030130	200480	E
KR 521855	B	20051014	KR 20036078	A	20030130	200680	E

Priority Applications (no., kind,date): KR 20036078 A 20030130

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20040215492	A1	EN	18	13		
KR 521855	B	KO			Previously issued patent	KR 2004069608

**...Internet by forming Bluetooth modules in an insulin pump, blood sugar level measuring device and personal digital assistant, and linking Bluetooth communication device and personal digital assistant with serve**  
**Alerting Abstract** ...respectively forming Bluetooth modules in an insulin pump, blood sugar level measuring device and a **personal digital assistant** to drive insulin pump through intercommunication, and linking a separate Bluetooth communication device and **personal digital assistant** with a server to control the insulin pump and blood sugar measuring device. ... preparing an insulin pump, a blood sugar level measuring device and a **personal digital assistant (PDA)** in which Bluetooth modules are built, respectively, so that the Bluetooth modules transmit and receive.... main unit of a computer and that the main unit of the computer and the **PDA** are connected through the Internet with a server which functions to administrate a patient who uses the insulin pump; ascertaining whether or not a logged-in person is a **physician**; determining the logged-in person as a **nurse** when the logged-in person is not a **physician**, receiving the **patient's** blood sugar level **data** and generating a command to change an insulin injection amount; checking whether or not the logged-in person is an attending **physician** when the logged-in person is a **physician**, and changing the logged-in person to an attending **physician** when the logged-in person is not an attending **physician**; and driving a corresponding insulin pump having the patient's ID by transmitting through the ... sugar



level measurement and insulin injection amount, when the logged-in person is an attending **physician** or when the logged-in person is changed to an attending **physician**. ... The radio communication among an insulin pump, a blood sugar level measuring device and a **personal digital assistant** can be enabled through Bluetooth chips, so that the insulin pump can be operated in..... conformity with a measurement from the blood sugar level measuring device and even an attending **physician** from a **remote place** can regulate an insulin injection amount or an insulin injection mode for a patient using the insulin pump through the Internet or the **PDA** under the action of a server.

**Technology Focus**

**INSTRUMENTATION AND TESTING - Preferred Method:** The determining step comprises downloading the **patient's ID and data** of a registered hospital; receiving the **patient's blood sugar level measurement data** through classification according to **ID**; commanding a corresponding prescription determined on the basis of the... downloading **data** for the **patient** that is under treatment by the attending **physician**; confirming whether or not there exists a prescription regarding insulin injection amount which is set and inputted by the attending **physician**; inputting the prescription to the main unit of the computer when the prescription exists; and... Original Publication Data by Authority.

**Original Abstracts:** Internet. The method comprises the steps of ascertaining whether a logged-in person is a **physician**; determining the logged-in person as **nurse** when the logged-in person is not a **physician**, receiving a **patient's blood sugar level data** and generating a command to change an insulin injection amount; checking whether the logged-in person is an attending **physician** when the logged-in person is a **physician**, and changing the logged-in person to an attending **physician** when the logged-in person is not an attending **physician**; and driving a corresponding insulin pump having the patient's **ID** by transmitting through the... sugar level measurement and insulin injection amount, when the logged-in person is an attending **physician** or when the logged-in person is changed to an attending **physician**. ...

**Claims:** the steps of: preparing an insulin pump, a blood sugar level measuring device and a **personal digital assistant** in which Bluetooth modules are built, respectively, so that the Bluetooth modules transmit and receive... main unit of a computer and that the main unit of the computer and the **PDA** are connected through the Internet with a server which functions to administrate a patient who uses the insulin pump; ascertaining whether or not a logged-in person is a **physician**; determining the logged-in person as **nurse** when the logged-in person is not a **physician**, receiving the **patient's blood sugar level data** and generating a command to change an insulin injection amount; checking whether or not the logged-in person is an attending **physician** when the logged-in person is a **physician**, and changing the logged-in person to an attending **physician** when the logged-in person is not an attending **physician**; and driving a corresponding insulin pump having the patient's **ID** by transmitting through the... sugar level measurement and insulin injection amount, when the logged-in person is an attending **physician** or when the logged-in person is changed to an attending **physician**.

20/3,K/8 (Item 8 from file:350) [Links](#)

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0014434892 *Drawing available*

WPI Acc no: 2004-625368/200460

Related WPI Acc No: 2003-730749; 2003-897401; 2004-202118; 2004-506048; 2004-615666; 2004-615800; 2004-625578; 2004-625579; 2004-625580; 2004-625581; 2004-625582; 2004-625668; 2005-142751; 2005-240640  
XRPX Acc No: N2004-494556

**Multi-purpose user interface e.g. personal digital assistant for patient healthcare system, communicates with central computer and medical device and displays medical information received from computer**

Patent Assignee: BAXTER INT INC (BAXT); LETELLIER L M (LETE-I); MARTUCCI J P (MART-I); MIHAI D M (MIHA-I)

Inventor: LETELLIER L M; MARTUCCI J P; MIHAI D M

Patent Family ( 2 patents, 106 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2004069095	A2	20040819	WO 2004US2680	A	20040130	200460	B
US 20040172301	A1	20040902	US 2002135180	A	20020430	200460	E
			US 2003444350	P	20030201		
			US 2003424553	A	20030428		
			US 2003488273	P	20030718		
			US 2003659760	A	20030910		
			US 2003528106	P	20031208		
			US 2003748750	A	20031230		

Priority Applications (no., kind,date): US 2002135180 A 20020430; US 2003528106 P 20031208; US 2003659760 A 20030910; US 2003488273 P 20030718; US 2003424553 A 20030428; US 2003444350 P 20030201; US 2003748750 A 20031230

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2004069095	A2	EN	204	70		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW					
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
US 20040172301	A1	EN			C-I-P of application	US 2002135180
					Related to Provisional	US 2003444350

				C-I-P of application	US 2003424553
				Related to Provisional	US 2003488273
				C-I-P of application	US 2003659760
				Related to Provisional	US 2003528106

**Multi-purpose user interface e.g. personal digital assistant for patient healthcare system, communicates with central computer and medical device and displays medical information... Alerting Abstract ... USE - E.g. personal digital assistant (PDA) used by clinician such as physicians, pharmacists and nurses for communicating with medical devices e.g. micro-electromechanical system (MEMS) pump, volumetric infusion pump and syringe pump, and of patient healthcare system (claimed), medication delivery system and medication information technology systems, in hospitals through networks, to treat patient during emergency and to verify drug amount, diluents, dose and rate of infusion prescribed to... Original Publication Data by Authority**

**Original Abstracts:** A system and method is disclosed for remote multi-purpose user interface for medical devices and systems within a healthcare/medication delivery system and/or medication information technology system. The... A system and method is disclosed for remote multi-purpose user interface (118) for medical devices (120) and systems within a healthcare / medication delivery system and/or medication information technology system. The multi-purpose...

20/3,K/9 (Item 9 from file:350) [Links](#)

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0014318639 *Drawing available*

WPI Acc no: 2004-506048/200448

Related WPI Acc No: 2003-730749; 2003-897401; 2004-202118; 2004-615666; 2004-615800; 2004-625368; 2004-625578; 2004-625579; 2004-625580; 2004-625581; 2004-625582; 2004-625668; 2005-142751; 2005-240640  
XRPX Acc No: N2004-399772

**Patient care system for reporting on integrity of wireless communication link, has wireless remote device generating time-out output that indicates loss of wireless communication link**

Patent Assignee: LETELLIEN L M (LETE-I); MARTUCCI J P (MART-I); SIMPSON T L C (SIMP-I)

Inventor: LETELLIEN L M; MARTUCCI J P; SIMPSON T L C

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040121767	A1	20040624	US 200259929	A	20020129	200448	B
			US 2002135180	A	20020430		
			US 2003444350	P	20030201		
			US 2003424553	A	20030428		
			US 2003488273	P	20030718		
			US 2003659760	A	20030910		

Priority Applications (no., kind,date): US 2003488273 P 20030718; US 2003424553 A 20030428; US 2003444350 P 20030201; US 2002135180 A 20020430; US 200259929 A 20020129; US 2003659760 A 20030910

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20040121767	A1	EN	33	11	C-I-P of application	US 200259929
					C-I-P of application	US 2002135180
					Related to Provisional	US 2003444350
					C-I-P of application	US 2003424553
					Related to Provisional	US 2003488273

**Patient care system for reporting on integrity of wireless communication link, has wireless remote device generating time-out output that indicates loss of wireless communication link** Alerting Abstract...medication administration module related with an application device e.g. infusion pump (120). A wirelessremote device e.g. PDA (118) has an indicator e.g. visualdisplay (118a) responsive to a status information output...signal output from the device. The output is transmitted over a wireless communication link. The remote device has an application to generate a time-out when the link is lost...or subsystem. The pertinent information is displayed on the electronic computing device, thereby saving anurse time. When a pump produces alarm the clinician view patient information,

drug delivery, alert message on a **personal digital assistant** to gather items before going to a patient room to physically correct the alarm condition... 118 **Personal digital assistant** Original Publication Data by Authority... **Claims:** a status information output responsive to a signal output generated by the medication treatment application device; a wireless **remote device** within the healthcare facility having a message indicator responsive to the **status information** output transmitted over the wireless communication link and representative of the signal generated by the medication treatment application device; software installed on the wireless **remote device** having a time-out output; and, wherein the time-out output indicates loss of the wireless communication link.

20/3,K/10 (Item 10 from file: 350) Links

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0014188849 *Drawing available*

WPI Acc no: 2004-374259/200435

Related WPI Acc No: 2001-441803

XRAM Acc no: C2004-140763

XRFX Acc No: N2004-297729

**Interactive remote drug dose and physiologic response monitoring system, includes drug delivery device and implantable device implanted in patient under prescriptive regimen**

Patent Assignee: FERREK-PETRIC B (FERE-I); MEDTRONIC INC (MEDT); WARKENTIN D H (WARK-I)

Inventor: FERREK-PETRIC B; WARKENTIN D H

Patent Family ( 2 patents, 106 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040077995	A1	20040422	US 1999475709	A	19991230	200435	B
			US 2002123958	A	20020417		
			US 2003631953	A	20030731		
WO 2005009514	A2	20050203	WO 2004US24740	A	20040729	200510	E

Priority Applications (no., kind, date): US 2002123958 A 20020417; US 1999475709 A 19991230; US 2003631953 A 20030731

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20040077995	A1	EN	16	7	Continuation of application	US 1999475709
					C-I-P of application	US 2002123958
					Continuation of patent	US 6471645
WO 2005009514	A2	EN				
National Designated States, Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW					

Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
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**Alerting Abstract** ... delivered by the IMD, notifying the patient, alerting a remote user, and communicating instructions to the drug delivery device. **Technology Focus** ... pump, or transcutaneous application. The communication device is a programmer (20), watch, pager, cellular phone, **personal digital assistant (PDA)**, telephone, or personal computer. Original Publication Data by Authority. **Original Abstracts:** is preferably implemented in a web-enabled environment in which a remote data center communicates with the implantable devices (IMDs) in a patient via a programmer or the pill dispenser. A physician, clinician, or other user may access the remote data center to review and monitor the IMDs or the drug ... least one implantable medical device. The system is preferably implemented in a web-enabled environment in which a remote data center communicates with the implantable devices (IMDs) in a patient via a programmer or the pill dispenser. A physician, clinician, or other user may access the remote data center to review and monitor the IMDs or the drug delivery regime remotely. The system ... compatible with a web-enabled interactive data communication environment that accurately monitors dose and specific drug effectiveness in a patient to enhance patient care... **Claims: 1.** An interactive remote drug dose and physiologic response monitoring system in a patient wherein at least one IMD is adapted to communicate with a drug...

20/3,K/11 (Item 11 from file: 350) [Links](#)

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0014144490 *Drawing available*

WPI Acc no: 2004-329272/200430

XRFX Acc No: N2004-262781

**Electronic medical record managing method for health care provider e.g. physician, involves creating electronic record and its electronic copy accessible by remote station, upon record encryption and security identifiers entry**

Patent Assignee: CONCEPTUAL MINDWORKS INC (CONC-N)

Inventor: GAY L; SHELTON D; SPROWLS J

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040078229	A1	20040422	US 2002384455	P	20020531	200430	B
			US 2002406595	P	20020828		
			US 2003448665	A	20030530		

Priority Applications (no., kind,date): US 2002406595 P 20020828; US 2002384455 P 20020531; US 2003448665 A 20030530

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20040078229	A1	EN	21	22	Related to Provisional	US 2002384455
					Related to Provisional	US 2002406595

**Electronic medical record managing method for health care provider e.g. physician, involves creating electronic record and its electronic copy accessible by remote station, upon record encryption...** Alerting Abstract ...USE - Used for a health care provider e.g. **physician** in a medical industry for managing an electronic medical record (claimed... entry of security identifiers by the remote station personnel, thereby providing security access to medical **information** for the **patients** and care delivery organizations (CDO) accurately. The method provides the medical reminder **information** in the manner that assists the **patient** in making the informed decision. The method is capable of accessing the information in order to remind the **physician, nurse, administrator** and/or patient of recommended treatments and/or procedures... Original Publication Data by Authority **Original Abstracts:** The present invention provides a medical record management system and method capable of providing **patients** and CDOs with **secure** access to medical **information**. In one embodiment, **medical** records are created, maintained and stored in one or more databases. In one embodiment, the... cataloging, retrieving and storing recommended treatments and/or procedures for individual patients. The present invention is capable of accessing this **information** in order to **remind** the **physician, nurse, administrator** and/or **patient** of recommended treatments and/or procedures. ...**Claims:** steps of: providing an electronic records management system comprising at least one object oriented storage **device** connected to one or more **remote** computer stations through a data transmission network; providing a web-based graphic user interface through... information relating to said remote station; receiving

and storing said identifying information upon said storage device; receiving personal information; and storing said personal information upon said storage device and creating an electronic record, an electronic copy of said record being accessible by said remote station through said data transmission network upon encryption of said record and entry of one or more security...



20/3,K/12 (Item 12 from file: 350) [Links](#)

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0014096554 *Drawing available*

WPI Acc no: 2004-280263/200426

Related WPI Acc No: 2000-376710; 2003-895266; 2004-166994; 2004-280237; 2004-338586

XRAM Acc no: C2004-108054

XPX Acc No: N2004-221966

**Hand-held health monitoring device includes enclosure for housing test strip, holder for supporting sample gathering device, test strip reader, memory reading device, user input device, display device, processor, and data drive**

Patent Assignee: CLEGG K D (CLEG-I); COAD C A (COAD-I); COAD N M (COAD-I); CONNOLLY J B (CONN-I); MAUS C T (MAUS-I); MOODY J L (MOOD-I); NESBITT K A (NESB-I); LIFESTREAM TECHNOLOGIES INC (LIFE-N)

Inventor: CLEGG K D; COAD C A; COAD N M; CONNOLLY J B; MAUS C T; MOODY J L; NESBITT K A

Patent Family ( 2 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040038389	A1	20040226	US 1998107707	P	19981109	200426	B
			US 1999144705	P	19990720		
			US 1999436323	A	19991108		
			US 2003649294	A	20030826		
US 7092891	B2	20060815	US 2003649294	A	20030826	200654	E

Priority Applications (no., kind,date): US 1999436323 A 19991108; US 1999144705 P 19990720; US 1998107707 P 19981109; US 2003649294 A 20030826

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20040038389	A1	EN	54	31	Related to Provisional	US 1998107707
					Related to Provisional	US 1999144705
					Division of application	US 1999436323
					Division of patent	US 6602469

**Hand-held health monitoring device includes enclosure for housing test strip, holder for supporting sample gathering device...** **Alerting Abstract** ...NOVELTY - A **hand-held** health monitoring device has an enclosure for housing a disposable test strip; holder for supporting... **DESCRIPTION** - A **hand-held** health monitoring device comprises an enclosure (24) for housing a disposable test strip (28) for.... **ADVANTAGE** - The inventive **hand-held** health monitoring device drastically reduces the costs and inconvenience associated with obtaining cholesterol tests by performing total cholesterol tests in virtually any location, including a **physician's** office, a pharmacy, a clinic, or in the privacy of the patient's home... and programming. It also includes an on-board diagnostic program that prompts for additional diagnostic **information**, such as the **patient's** age, gender, weight, family history of heart disease, oblood

pressure... ..DESCRIPTION OF DRAWINGS - The figure is a front view of a **hand-held** health monitoring and diagnostic device in an open position... ..Original Publication Data by Authority.. **Original Abstracts:** The meter reads a test strip carrying a droplet of blood and receives additional diagnostic **information** from the **patient**, such as age, **gender**, weight, and family history of heart disease. Within minutes, the meter displays test results, including... .. in connection with a network-based comprehensive health analysis and reporting system. The meter **stores patient data** to a **smartcard**. **This patient data** typically includes **patient identification information**, the **test results**, the **diagnostic information**, and the **diagnostic results**. A computer station reads the smartcard and establishes a network connection with a health report server over the Internet. The computer then downloads the **patient data** to the **health report** server, which prepares a comprehensive health report. Within minutes, this report is transmitted back to... .. A secure medical records maintenance system including a first server that **stores patient identification information** indexed by **patient identification numbers (PINs)** and a **second** server that **stores patient medical data** indexed by medical record identification numbers. **For security purposes**, the medical **data** maintained in the second remote server cannot be **correlated** to the associated **patient identification information** maintained in the first server based on the **information** contained in the servers. A correlation table uniquely associating each medical record identification number with... .. **Claims:** maintenance system, comprising: a plurality of **removable** memory storage devices, each operable for storing medical **data** for an associated **patient**, a **patient-specified** personal identification number, and a medical records identification number secured by the patient-specified personal identification number; a **first remote server** operable for storing **patient identification information** indexed by **patient identification numbers**; a **second remote server** operable for storing **patient medical data** indexed by the medical **records** identification numbers; a correlation table uniquely associating each medical records identification number with a particular **one** of the **patient** identification numbers; and the medical **data** maintained in the second remote **server** cannot be correlated to the associated **patient identification information** maintained in the first remote server based on the information contained in the first and second remote servers.

20/3,K/13 (Item 13 from file: 350) [Links](#)

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0014068581 *Drawing available*

WPI Acc no: 2004-251672/200424

XRPX Acc No: N2004-199564

**Patient monitoring system in hospital, forbids output of warning sound from personal digital assistant when personal digital assistant is setup in predetermined range near central monitor**

Patent Assignee: COLIN DENSHI KK (COLI-N)

Inventor: HASEGAWA T; KOGA T; MIYAZAKI M; TERASAWA A

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 2004065471	A	20040304	JP 2002228008	A	20020805	200424	B

Priority Applications (no., kind,date): JP 2002228008 A 20020805

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
JP 2004065471	A	JA	15	7	

**Patient monitoring system in hospital, forbids output of warning sound from personal digital assistant when personal digital assistant is setup in predetermined range near central monitor Alerting Abstract...NOVELTY**

- A position detector (40) detects the position of personal digital assistant (PDA) (22) of in-charge nurse, when patient's abnormality is determined. A prohibition unit (48) forbids the output of warning sound from the PDA when the PDA is setup in a predetermined range near a central monitor (14). DESCRIPTION - An INDEPENDENT CLAIM is also included for remote monitoring apparatus. ... USE - For monitoring patient's biological information such as electrocardiogram (ECG), heart rate and respiration rate in hospital using personal digital assistant (PDA). ... the output of warning sound, the noise is eliminated from both the central monitor and PDA thus improving the working efficiency of the nurse.

20/3,K/14 (Item 14 from file: 350) [Links](#)

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0013001723 *Drawing available*

WPI Acc no: 2003-079931/200308

XRFX Acc No: N2003-062335

**Nurse call system for hospital, transmits biological information of patient to handheld radio device with display carried by nurse to notify abnormal value of biological information as both sound and character information**

Patent Assignee: AIPHONE KK (AIPH-N)

Inventor: SUMITA T

Patent Family ( 1 patent s, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 2002281167	A	20020927	JP 200176535	A	20010316	200308	B

Priority Applications (no., kind,date): JP 200176535 A 20010316

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
JP 2002281167	A	JA	8	2	

**Nurse call system for hospital, transmits biological information of patient to handheld radio device with display carried by nurse to notify abnormal value of biological information as both sound and character information** **Original Titles:** NURSE CALL SYSTEM **Alerting Abstract ...NOVELTY** - A measuring device (1a-4a,1b-4b) measures the biological information of a patient and transmits to a handheld radio device (40a,40b) of nurse, using a trunk line (L12). The nurse radio device has display device with display sections (21a,21b,22a,22b) such as lamp... **USE** - Nurse call system for hospital... **ADVANTAGE** - The patient's status and the abnormal biological information can be notified to a nurse at remote place, appropriately... **DESCRIPTION OF DRAWINGS** - The figure shows the block diagram of the nurse call system. (Drawing includes non-English language text... 40a,40b **Handheld** radio devices...

20/3,K/15 (Item 15 from file: 350) [Links](#)

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0012951812 *Drawing available*

WPI Acc no: 2003-028703/200302

XRPX Acc No: N2003-022555

**Computer-implemented patient monitoring and treating method for heart failure treatment, involves updating existing treatment plan based on current assessment and treatment guidelines for each diagnosed condition**

Patent Assignee: EIFFERT M E (EIFF-I); SCHWARTZ L C (SCHW-I); UNIV ROCHESTER (UYRP)

Inventor: EIFFERT M E; SCHWARTZ L C

Patent Family ( 2 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020120187	A1	20020829	US 2001793191	A	20010226	200302	B
US 6612985	B2	20030902	US 2001793191	A	20010226	200359	E

Priority Applications (no., kind,date): US 2001793191 A 20010226

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20020120187	A1	EN	29	12	

**Alerting Abstract** ... heart failure, diabetes and asthma. Is implemented as software in special purpose computer, cellular phone, PDA, programmed microprocessor or microcontroller, digital signal processor, programmable logic device (PLD), programmable logic array (PLA) device, programmable array logic (PAL) device and field programmable logic. ... cost and reinforces the patient compliance to patient treatment protocol and the compliance by a **physician** to standard treatment guidelines from other authoritative organization. Enable **developing** treatment plans that minimize the disruption on and quality of patient's daily life. **Physicians**, medical facilities and organization provide with important feedback on **physicians** compliance with treatment guidelines and the patient's compliance **with** treatment regimens... Original Publication Data by Authority. **Original Abstracts:** a treatment processing system. The current assessment is based on objective data and subjective data about each of the diagnosed conditions from the **patient** who is at a **remote location** and on **one or more** assessment guidelines for each of the diagnosed conditions. Next, an existing treatment plan for ... diagnosed conditions is then transmitted to the patient for application by the patient at the **remote location**. ... current assessment is based on objective data and subjective data about each of the diagnosed conditions from the **patient** who is at a **remote location** and on **one or more** assessment guidelines for **each** of the diagnosed conditions. Next, an existing treatment plan for **each** of the diagnosed conditions... diagnosed conditions is then transmitted to the patient for application by the patient at the **remote location**. ... **Claims:** system based on objective data and subjective data about each of the diagnosed conditions from the **patient** who is at a **remote location** and on **one or more** assessment guidelines for **each of the** diagnosed conditions; and updating an existing treatment plan for each of the diagnosed conditions... the method comprising: determining a current assessment of one or more diagnosed conditions in a **patient** based on data about

each of the diagnosed conditions from the patient who is at **remote location** and on one or more assessment guidelines **for** each of **the** diagnosed conditions; updating an existing treatment plan for each of the diagnosed conditions **based on** the existing treatment plan, the current assessment, and on one or more treatment guidelines for...

20/3,K/16 (Item 16 from file: 350) [Links](#)

Derwent WPIX

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0012385829 *Drawing available*

WPI Acc no: 2002-329281/200236

XRPX Acc No: N2002-258492

**Electronic medical record system for storing patient medical records, using remote access device and global communication system which can generate reminder or patient appointments**

Patent Assignee: SIRKPATH INC (SIRK-N); WESTFALL M D (WEST-I)

Inventor: WESTFALL M D

Patent Family ( 3 patents, 89 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2002003298	A1	20020110	WO 2001US21192	A	20010705	200236	B
AU 200171812	A	20020114	AU 200171812	A	20010705	200237	E
US 20030208382	A1	20031106	WO 2001US21192	A	20010705	200374	E
			US 2002240613	A	20020930		

Priority Applications (no., kind,date): US 2002240613 A 20020930; US 2000215980 P 20000705

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2002003298	A1	EN	53	32		
National Designated States,Original	AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
AU 200171812	A	EN			Based on OPI patent	WO 2002003298
US 20030208382	A1	EN			PCT Application	WO 2001US21192

**Electronic medical record system for storing patient medical records, using remote access device and global communication system which can generate reminder or patient appointments** ...the Internet and a provider terminal (19) is preferably located at the office of a physician or health-care worker. The provider terminal is accessed using a password to transmit medical...Original Publication Data by Authority.**Original Abstracts:**The portable storage device preferably contains a processor, a memory, and an input device. A **nelectronic** patient record (15) is also disclosed. The **patient** record is carried by the portable **data** access device and may be updateable via the global communications network (12), the **personal** computer (14), or the input device acting in communication with the

storage device. The **patient** record (15) contains personal **patient information**, such as disease/treatment history, and health insurance/medication **information**. The **storage** device may also generate **patient** reminders **instructing a patient** to schedule appointments. The input device is used **to** log into the portable device or **terminal** (14)... .. portable storage device preferably contains a processor, a memory, and an input device. An electronic **patient** record (15) is also disclosed. The **patient** record is carried by the portable **data** access device and may be updateable via the global communications network (12), the personal computer (14), or the **input device** acting in communication with the storage **device**. The **patient** record (15) contains personal **patient information**, such as disease/treatment history, and health insurance/medication **information**. The storage device may also generate **patient** reminders **instructing a patient** to schedule appointments. The **input device** is used to log into the portable device or **terminal** (14). ... .. d'entree qui fonctionne en communication avec le dispositif de stockage. L'enregistrement concernant les **patients** (15) renferme des **informations** personnelles portant sur les **patients**, telles que leurs antecedents medicaux, les traitements suivis dans le passe, des informations ayant trait a l'assurance maladie et aux medictions. Ce dispositif de stockage **peut** egalement produire des mementos **qui** servent, par exemple, a rappeler a un **patient** de prendre un rendez-vous medical. On utilise le dispositif d'entree pour se connecter au dispositif portable ou au... **Claims:** connection port; c) a portable data access device communicably connectable to the first connection port; and d) an electronic **patient** medical record carried by the portable **data** access device and updateable via at least one of: the global **communications** network and the personal computer.



20/3,K/17 (Item 17 from file: 350) [Links](#)

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0010697859 *Drawing available*

WPI Acc no: 2001-307990/200132

XRFX Acc No: N2001-220426

**Sensing, monitoring and responding medical implant has sensors to monitor data in implant or environment of implant in patient, and actuating devices implement response corresponding to monitored data**

Patent Assignee: ENDOLUMINAL THERAPEUTICS INC (ENDO-N)

Inventor: MARVIN S J; SLEPIAN M J; SLEPIAN M

Patent Family ( 7 patents, 93 count ries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001019239	A1	20010322	WO 2000US25426	A	20000915	200132	B
AU 200073831	A	20010417	AU 200073831	A	20000915	200140	E
EP 1215994	A1	20020626	EP 2000961948	A	20000915	200249	E
			WO 2000US25426	A	20000915		
JP 2003509098	W	20030311	WO 2000US25426	A	20000915	200319	E
			JP 2001522883	A	20000915		
US 6802811	B1	20041012	US 1999154637	P	19990917	200467	E
			US 2000662927	A	20000915		
CA 2382846	C	20051206	CA 2382846	A	20000915	200624	E
			WO 2000US25426	A	20000915		
EP 1215994	B1	20070725	EP 2000961948	A	20000915	200751	E
			WO 2000US25426	A	20000915		
			EP 2007766	A	20070116		

Priority Applications (no., kind,date): US 1999154637 P 19990917; US 2000662927 A 20000915

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2001019239	A1	EN	32	5		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW					
AU 200073831	A	EN			Based on OPI patent	WO 2001019239
EP 1215994	A1	EN			PCT Application	WO 2000US25426

					Based on OPI patent	WO 2001019239
Regional Designated States, Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
JP 2003509098	W	JA	36		PCT Application	WO 2000US25426
					Based on OPI patent	WO 2001019239
US 6802811	B1	EN			Related to Provisional	US 1999154637
CA 2382846	C	EN			PCT Application	WO 2000US25426
					Based on OPI patent	WO 2001019239
EP 1215994	B1	EN			PCT Application	WO 2000US25426
					Related to application	EP 2007766
					Based on OPI patent	WO 2001019239
Regional Designated States, Original	AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					

**Sensing, monitoring and responding medical implant has sensors to monitor data in implant or environment of implant in patient, and actuating devices implement response corresponding to monitored data** Original Publication Data by Authority. **Original Abstracts:**the temperature or pH is altered. These systems can also be used to connect a **patient** to a **remote data storage system**, such as the internet or a computer accessible through devices such as **PDA (Palm Pilot systems)**, phone system devices, that the **physician** can use to interact remotely with the implant... .. the temperature or pH is altered. These systems can also be used to connect a **patient** to a **remote data storage system**, such as the internet or a computer accessible through devices such as **PDA (Palm Pilot systems)**, phone system devices (portable phones, answering services, beepers office fax machines), that the **physician** or **nurse** can monitor or use to interact remotely with the implant... .. the temperature or pH is altered. These systems can also be used to connect a **patient** to a **remote data storage system**, such as the internet or a computer accessible through devices such as **PDA (Palm Pilot systems)**, phone system devices, that the **physician** can use to interact remotely with the implant... .. donnees, tel que l'Internet ou un ordinateur accessible via des dispositifs tels que des **PDA** (systemes **Palm Pilot**), des dispositifs de systeme telefoniques, que les medecin peuvent utiliser de facon a interagir a... .. **Claims:**the at least one actuator (20) are configured for control by at least one apparatus **external** to the implantable **device**, and wherein one or more sensors (40) are in, on, or part of the device...

20/3,K/18 (Item 18 from file: 350) [Links](#)

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0009012135 *Drawing available*

WPI Acc no: 1998-568414/199848

XRPX Acc No: N1998-442191

**Computerised electromyographic diagnostic system. - Uses computer to process and display output from array of electrodes placed on patient's lower back.**

Patent Assignee: ADVANCED IMAGING SYSTEMS INC (ADIM-N); PARASPINAL DIAGNOSTIC CORP (PARA-N)

Inventor: BIHARI T E; FINNERAN B A; FINNERANM T; FINNERAN R J; PUGH D R

Patent Family ( 13 patents, 81 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1998046129	A1	19981022	WO 1998US7850	A	19980414	199848	B
AU 199871343	A	19981111	AU 199871343	A	19980414	199912	E
US 6002957	A	19991214	US 199743092	P	19970415	200005	E
			US 199859783	A	19980414		
US 6004312	A	19991221	US 199743092	P	19970415	200006	E
			US 199832730	A	19980227		
EP 975260	A1	20000202	EP 1998918418	A	19980414	200011	E
			WO 1998US7850	A	19980414		
US 6047202	A	20000404	US 199743092	P	19970415	200024	E
			US 199859782	A	19980414		
AU 723456	B	20000824	AU 199871343	A	19980414	200045	E
JP 2002502274	W	20020122	JP 1998544349	A	19980414	200211	E
			WO 1998US7850	A	19980414		
MX 199909501	A1	20010701	MX 19999501	A	19991015	200236	E
JP 3423324	B2	20030707	JP 1998544349	A	19980414	200345	E
			WO 1998US7850	A	19980414		
CA 2281731	C	20030826	CA 2281731	A	19980414	200357	E
			WO 1998US7850	A	19980414		
IL 132305	A	20041124	IL 132305	A	19980414	200504	E
MX 232469	B	20051201	WO 1998US7850	A	19980414	200637	E
			MX 19999501	A	19991015		

Priority Applications (no., kind,date): US 199859783 A 19980414; US 199859782 A 19980414; US 199743092 P 19970415; US 199832730 A 19980227

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
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WO 1998046129	A1	EN	61	30		
National Designated States,Original	AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
AU 199871343	A	EN			Based on OPI patent	WO 1998046129
US 6002957	A	EN			Related to Provisional	US 199743092
US 6004312	A	EN			Related to Provisional	US 199743092
EP 975260	A1	EN			PCT Application	WO 1998US7850
					Based on OPI patent	WO 1998046129
Regional Designated States,Original	AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
US 6047202	A	EN			Related to Provisional	US 199743092
AU 723456	B	EN			Previously issued patent	AU 9871343
					Based on OPI patent	WO 1998046129
JP 2002502274	W	JA	70		PCT Application	WO 1998US7850
					Based on OPI patent	WO 1998046129
JP 3423324	B2	JA	27		PCT Application	WO 1998US7850
					Previously issued patent	JP 200202274
					Based on OPI patent	WO 1998046129
CA 2281731	C	EN			PCT Application	WO 1998US7850
					Based on OPI patent	WO 1998046129
IL 132305	A	EN			Based on OPI patent	WO 1998046129
MX 232469	B	ES			PCT Application	WO 1998US7850
					Based on OPI patent	WO 1998046129

**Alerting Abstract** ...back skeletal anatomy (90). The light bar display can be adjusted or modified by the physician or automatically by the computer... Original Publication Data by Authority. **Original Abstracts:** which can then be electronically displayed in a corresponding pattern, for evaluation by the attending physician. ... **Claims:** system for providing a visual display analogous to a portion of the anatomy of a patient, which display contains information indicative of a status of that portion of the anatomy, comprising: plurality of sensors disposed adjacent to the portion of the anatomy of the patient, each sensor developing sensor signals... signals are amplified by the signal conditioners to develop conditioned signals for use at location remote from the patient; a signal processor adapted to receive the conditioned signals and convert the conditioned signals to visual display signals; and a display device, wherein the display device provides a visual display responsive to... the display device, and wherein the graph device is operative to produce a plurality of electronic images on the display device, wherein each electronic image includes a visual representation of at least...

20/3,K/19 (Item 19 from file: 350) [Links](#)

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0008156199

WPI Acc no: 1997-257434/199723

XRAM Acc no: C1997-083085

**Glucose implantable monitoring system used in diabetic patients**

Patent Assignee: ANONYMOUS (ANON)

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
RD 395018	A	19970310	RD 1997395018	A	19970220	199723	B

Priority Applications (no., kind,date): RD 1997395018 A 19970220

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
RD 395018	A	EN			

**Alerting Abstract** ...1) the S system: composed of one implantable and one **external device** with only alpha-numeric display of glucose levels (the system would replace the present in... ..2) the SP system: enhances the **external device** capability to include storage of trend data and output data to an appropriate interface (printer... ..system: the addition of a modem on each end of a communication system where the **external device** and the clinical device can communicate via telephone. This system is targeted to enhance patient... ..give easily obtained, immediate readings of glucose levels simply by pushing a button on a **hand-held external device**. **Documentation Abstract** ...1) the S system: composed of one implantable and one **external device** with only alpha-numeric display of glucose levels (the system would replace the present in... ..2) the SP system: enhances the **external device capability** to include storage of trend data and output data to an appropriate interface (printer and/or... ..system: the addition of a modem on each end of a communication system where the **external device and the clinical device** can communicate via telephone. This system is targeted to enhance patient care remote from the... ..give easily obtained, immediate readings of glucose levels simply by pushing a button on a **hand-held external device**.... ..system. The patient will read these levels using the external device and manage glucose per **physician** direction.... ..A patient **external device (GIME)** is a **patient hand-held device needed** to access **data** from the implanted device as well as to calibrate and communicate with the implanted device. Several **versions** of the **external device** are likely (but a single basic design will be used), dependent on the various system requirements... ..The GIMS is intended to be a **physician/clinician unit** to communicate to the **patient** via **telephone** lines, and to acquire **data** and **provide** clinical direction to the **patient**. (MSS)

20/3,K/20 (Item 20 from file: 350) [Links](#)

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0007888507 *Drawing available*

WPI Acc no: 1996-020729/199602

XRPX Acc No: N1996-017206

**Medical information reporting system - has patient sensor device controlled via patient operated interface device by microcontroller which writes data to memory and report writer**

Patent Assignee: ENACT HEALTH MANAGEMENT SYSTEMS (ENAC-N); ENACT PROD INC (ENAC-N); LIFECHART.COM INC (LIFE-N); TEIJIN LTD (TEIJ)

Inventor: SANDERS M H; TACKLIND C A; WALNE G B

Patent Family ( 19 patents, 63 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1995032480	A1	19951130	WO 1995US6525	A	19950522	199602	B
AU 199526463	A	19951218	AU 199526463	A	19950522	199611	E
US 5549117	A	19960827	US 1994247727	A	19940523	199640	E
			US 1995579062	A	19951222		
EP 765507	A1	19970402	EP 1995921364	A	19950522	199718	E
			WO 1995US6525	A	19950522		
US 5626144	A	19970506	US 1994247727	A	19940523	199724	E
			US 1995576941	A	19951222		
US 5704366	A	19980106	US 1994247727	A	19940523	199808	E
JP 10500598	W	19980120	JP 1995530507	A	19950522	199813	E
			WO 1995US6525	A	19950522		
US 5732709	A	19980331	US 1994247727	A	19940523	199820	E
			US 1995579062	A	19951222		
			US 1996679463	A	19960703		
KR 1997703567	A	19970703	WO 1995US6525	A	19950522	199829	E
			KR 1996706637	A	19961123		
AU 703391	B	19990325	AU 199526463	A	19950522	199924	E
EP 765507	B1	20001018	EP 1995921364	A	19950522	200053	E
			WO 1995US6525	A	19950522		
DE 69519166	E	20001123	DE 69519166	A	19950522	200101	E
			EP 1995921364	A	19950522		
			WO 1995US6525	A	19950522		
ES 2151067	T3	20001216	EP 1995921364	A	19950522	200105	E
JP 2005095646	A	20050414	JP 1995530507	A	19950522	200527	E
			JP 2004323462	A	20041108		
JP 2005095647	A	20050414	JP 1995530507	A	19950522	200527	E
			JP 2004323463	A	20041108		
JP 3697260	B2	20050921	JP 1995530507	A	19950522	200562	E

20/3,K/22 (Item 2 from file:2) [Links](#)

Fulltext available through: [ScienceDirect](#)

INSPEC

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08742990 **INSPEC Abstract Number:** C2003-11-7330-050

**Title:** Implementation of virtual medical devices in Internet and wireless cellular networks

**Author** Obrenovic, Z.; Starcevic, D.; Jovanov, E.; Radivojevic, V.

**Author Affiliation:** Belgrade Univ., Serbia

**Conference Title:** Internet Technologies, Applications and Societal Impact. IFIP TC6/WG6.4 Workshop on Internet Technologies, Applications and Societal Impact (WITAS2002) p. 229-42

**Editor(s):** Cellary, W.; Iyengar, A.

**Publisher:** Kluwer Academic Publishers, Norwell, MA, USA

**Publication Date:** 2002 **Country of Publication:** USA xiv+306 pp.

**Material Identity Number:** XX-2002-03853

**Conference Title:** WITAS02: IFIP Workshop on Internet Technologies, Applications and Societal Impact

**Conference Date:** 10-11 Oct. 2002 **Conference Location:** Wroclaw, Poland

**Language:** English

**Subfile:** C

Copyright 2003, IEE

**Abstract:** Telemedical systems work in heterogeneous processing environment and require a flexible system reconfiguration. **Physician** may switch from a **personal digital assistant** to a high performance- high resolution workstation very often, expecting the telemedical system to reconfigure....Internet and wireless cellular network technologies. We apply a novel concept of interactive **Virtual Medical Devices (VMD)** and merge **remote** data acquisition, distributed processing, and data presentation. Using **VMD** we have integrated spatially distributed functions: I/O at **patient** side, **data** processing, and presentation at **physician** side. Data acquisition is performed by **remote medical device** or medical sensor. Data processing is distributed and involves sophisticated real-time signal processing algorithms...

20/3,K/23 (Item 1 from file:23) [Links](#)

Fulltext available through: [ScienceDirect](#)

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0004865273 IP Accession No: N95-15975

**Simulation of arthroscopic surgery using MRI data**

HELLER, GEOFFREY; GENETTI, J O N Alaska Univ., Fairbanks, AK. Arctic Region Supercomputing Center.

**Publication Date:** 1994

**Conference:**

NASA. Johnson Space Center, ISMCR 1994: Topical Workshop on Virtual Reality. Proceedings of the Fourth International Symposium on Measurement and Control in Robotics p 21-26 (SEE N95-15972 04-63) , UNITED STATES

**Document Type:** Conference Paper

**Record Type:** Abstract

**Language:** ENGLISH

**File Segment:** Aerospace & High Technology

**Abstract:**

...engines in the computer world the possibility now exists for the simulation of surgery using **data** obtained from an actual **patient**. This paper describes a surgical simulation system which will allow a **physician** or a medical student to practice surgery on a patient without ever entering an operating.....the system is obtained through the use of an attached analog-to-digital unit. A **remote electronic device** is described which simulates an imaginary tool having features in common with both arthroscope and...

**Descriptors:** ...techniques; \*Knee (anatomy); \*Magnetic resonance; \*Real time operation; \*Surgery; \*Virtual reality; Color; Cost reduction; Patients; **Physicians**; Sports medicine; Students



? t /3,k/all

26/3,K/1 (Item 1 from file:350) [Links](#)

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0010418838 *Drawing available*

WPI Acc no: 2001-017093/200103

Related WPI Acc No: 2002-033780; 2005-131265

XRAM Acc no: C2001-004902

XRPX Acc No: N2001-012923

**Implantable, automatic dosing system comprises medicament storage and dosing pump with remotely programmed memory for safe limitation of dosage, while allowing limited freedom of self-administration**

Patent Assignee: MEDTRONIC INC (MEDT)

Inventor: HARTLAUB J T

Patent Family ( 2 patents, 2 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
DE 10020494	A1	20001102	DE 10020494	A	20000426	200103	B
FR 2792839	A1	20001103	FR 20005118	A	20000420	200103	E

Priority Applications (no., kind,date): US 1999303307 A 19990430

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
DE 10020494	A1	DE	8	2	

**Alerting Abstract** ...storage vessel for medicament is coupled to an implantable pump. Pump memory stores infusion dosage **data**. A port inputs a signal from the **patient**, prompting pumping action. The dose given is limited by the dosage data. The memory is programmed with dosage **data**. The **patient** self-administers medicament, but the dosage is limited by the dosage data stored, restricting the... ..storage vessel for medicament is coupled to an implantable pump. Pump memory stores infusion dosage **data**. A port inputs a signal from the **patient**, prompting pumping action. The dose given is limited by the dosage data. The memory is programmed with dosage **data** from outside the body of the **patient**. The patient self-administers medicament, but the dosage is limited by the dosage data stored.....**USE** - Used as an automatic **implantable** dosing **device** with **external** programmability... ..dosing, while allowing the patient limited freedom of self-administration according to need. Only the **physician** can program-in the normal dosing regime, thus system integrity is reinforced... ..**OF DRAWINGS** - A simplified block schematic diagram shows to the left, the external interface for **telemetry** and dosage data storage, the container and pump. To the right are the CPU with...

26/3,K/2 (Item 2 from file:350) [Links](#)

Derwent WPIX

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0009322774 *Drawing available*

WPI Acc no: 1999-254295/199921

XRPX Acc No: N1999-189338

**Critical care management system incorporating remote imaging and telemetry**

Patent Assignee: KINETIC CONCEPTS INC (KINE-N)

Inventor: BARTLETT A; HICKS R B; MANN K; VRZALIK J H

Patent Family ( 2 patents, 76 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1999013766	A1	19990325	WO 1998US19395	A	19980916	199921	B
AU 199895701	A	19990405	AU 199895701	A	19980916	199933	E

Priority Applications (no., kind,date): US 199759763 P 19970916

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 1999013766	A1	EN	28	4		
National Designated States,Original	AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
AU 199895701	A	EN			Based on OPI patent	WO 1999013766

**Critical care management system incorporating remote imaging and telemetry** **Original Titles:** CRITICAL CARE MANAGEMENT SYSTEM INCORPORATING REMOTE IMAGING AND TELEMETRY **Alerting Abstract** ...link (101) with destinations such as teaching universities (102), system manufacturer's service center (103), **physician** office or home (104,105), nursing facilities (106) or family member home (107). **USE** - Monitoring, processing, storing, display and utilizing **patient data** in vicinity of **patient** and remotely... **Title Terms** .../Index **Terms/Additional Words:** **TELEMETRY** **Original Publication Data by Authority.** **Original Abstracts:** with a critical care bed (11) for allowing the acquisition, analysis, display, and conveyance of **patient-related data** from a variety of transducers. The system is adapted to recognize and interpret each type of signal being received... each side of the patient surface to present convenient connection for patient transducer leads. The system has resident memory for storing data to enable trend analysis or downloading for **patient data** records. Bedside **medical devices** can either be **connected** to the **device** by cable connections (51) or by use of wireless connections (100, 101) and is capable of controlling various **medical devices** related to the **bed** or patient, potentially including patient turn actuators, scales, inflation devices and others...

26/3,K/3 (Item 3 from file:350) [Links](#)

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0007149207 *Drawing available*

WPI Acc no: 1995-184961/199524

Related WPI Acc No: 1997-479042

XRPX Acc No: N1995-144877

**Implantable cardiac therapy device collecting patient ECG and device status data - correlates information in data frame that may be stored for later telemetric transmission to external instrument, which decodes data frame for presentation to attending physician**

Patent Assignee: VENTRITEX INC (VENT-N)

Inventor: WILLIAMS M O

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5413594	A	19950509	US 1993164315	A	19931209	199524	B

Priority Applications (no., kind,date): US 1993164315 A 19931209

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 5413594	A	EN	14	7	

**Implantable cardiac therapy device collecting patient ECG and device status data - ...for later telemetric transmission to external instrument, which decodes data frame for presentation to attending physician**  
**Original Titles:**Method and apparatus for interrogating animplanted cardiac device **Alerting Abstract** ...A cardiac therapy system includes an**implanted** cardiac therapy **device** and an **external** instrument. The appts. for presenting device status **information** annotated to **patient** electrocardiogram (ECG)**information**, has a processor in the **implanted** cardiac therapy **device** for collecting, collating and assembling device**status** information, including cardiac event interval information, why a.....A monitoring device monitors**patient** electrocardiogram**information**, and a multiplexer assembles a status channel of a data frame by alternately including the device status **information** and **patient** ECG **information** in a portion of each **data** frame. A **telemetry** device communicates the data frame from the cardiac therapy **device** to the **external** instrument. A decoder disassembles the data frame into ECG information and device status information for... ..**ADVANTAGE** - Minimises **physician** workload in analysing data with clear arrangement of display data.**Title Terms** .../Index Terms/Additional Words:**TELEMETRY**; Original Publication Data by Authority**Original Abstracts:**An **implantable** cardiac therapy device **collects patient ECG and device status information**, including cardiac event **interval information**, why therapy was or was not applied, and **patient** response to therapy, in connection with an arrhythmic episode and correlates such information in a.. instrument. The data frame is decoded by the external instrument for presentaton to an attending**physician** in a time **correlated** format. **Claims:**In a cardiac therapy**system**, including an**implanted** cardiac therapy **device** and an **external** instrument, an apparatus for presenting**device** status **information** annotated to **patient** electrocardiogram **information**, comprising: a processor in said **implanted** cardiac **therapy device** for **collecting**, collating and assembling device status information, including cardic event interval information, whya therapy was or was not

applied, and **patient** response to therapy; means for monitoring **patient** electrocardiogram **information**; a **multiplexer** for assembling a status channel of a data frame by alternately including said device status **information** and **patient** electrocardiogram **information** in a portion of each data frame; **telemetry** means for communicating said data frame from said cardiac therapy **device** to said **external** instrument; a decoder for disassembling said data frame into electrocardiogram **information** and device status information and for...

26/3,K/4 (Item 4 from file:350) [Links](#)

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0002488586

WPI Acc no: 1982-E7865E/198217

**Heart pacemaker incorporating data store - holding administrative and diagnostic data and linked to external input-output peripheral**

Patent Assignee: SIEMENS AG (SIEI)

Inventor: ELMQVIST H

Patent Family ( 2 patents, 5 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 49812	A	19820421	EP 1981107745	A	19810929	198217	B
DE 3038856	A	19820527	DE 3038856	A	19801010	198222	E

Priority Applications (no., kind,date): DE 3038856 A 19801010

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
EP 49812	A	DE	14		
Regional Designated States,Original		FR GB IT NL			

**Heart pacemaker incorporating data store... ..Original Titles:Cardiac pacemaker Alerting Abstract ...**The implanted **pacemaker** (9) has a store (3) holding data which does not have a direct effect on the operation of the **pacemaker** (9). The data can be fed to, or received from an **external peripheral device** (10) via a telemetric link with the data flow controlled by a control device (4) also incorporated in the **pacemaker** (9). The store (3) can hold administrative and diagnostic data to remove the need for....Pref. the **pacemaker** (9) has a heat stimulation module (2), a data store (3), a control device (4... ..control clock (5),a parameter measuring device (7),a data processing device (8) and a **telemetry** circuit. The parameter measuring device (7) and the data processing device (8) allow diagnostic data...**Title Terms** .../Index Terms/Additional Words:**PACEMAKER**; Original Publication Data by Authority**Original Abstracts:** From production to application of a cardiac**pacemaker** a large number of administrative and diagnostic data ariseand these must be available, for example, to the treating**physician** at many different times in order to permit assessment of the **pacemaker** functions and its effects on a**patient**. **Data** were hitherto collected using a number of different**data** carriers, such as **patient** record cards, test charts, forms and other documents. In order to reduce the work involved... ..the same time to permit all data to be presented relably and completely, a**cardiac pacemaker** (1) according to the invention is provided with a store (3) for**data** which have nothing directly to do with the function of the cardiac**pacemaker**, means (6) for contactless receipt and/or transfer of data from and to, respectively,an... .. peripheral unit 10) and a control unit (4) for data transport.In this way the **pacemaker** (1) undertakes the administrative routines from production to application and also at least some of...

? t /3,k/all

30/3,K/1 (Item 1 from file:350) [Links](#)

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0016656839 *Drawing available*

WPI Acc no: 2007-371926/200735

Related WPI Acc No: 2006-203972; 2006-239222; 2006-239227

XRPX Acc No: N2007-277246

**Medical communications system for providing alert notification, has medical database with medical data and personal data in communication with host server, and user communication devices in communication with networks**

Patent Assignee: DAVE A (DAVE-I); WEISS SB (WEIS-I)

Inventor: DAVE A; WEISS S B

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20070041626	A1	20070222	US 2004921637	A	20040818	200735	B
			US 2005139828	A	20050527		
			US 2005247458	A	20051011		
			US 2006446949	A	20060605		

Priority Applications (no., kind,date): US 2004921637 A 20040818; US 2005139828 A 20050527; US 2005247458 A 20051011; US 2006446949 A 20060605

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20070041626	A1	EN	18	4	C-I-P of application	US 2004921637
					C-I-P of application	US 2005139828
					C-I-P of application	US 2005247458

**Alerting Abstract** ...as cellular telephone that is utilized for facilitating voice conversation and voicemail exchange, wireless telephone, **personal digital assistant (PDA)**, pager, and mobile and non-mobile user device, and communication between **physician**, healthcare provider, hospital, outpatient facility, healthcare institution, insurance carrier, skilled nursing/assisted living facility, patient... Original Publication Data by Authority. **Original Abstracts:** provided for facilitating the sending of medical treatment related communications to users of various user **communication** devices, such as **wireless** devices, over one or more networks. **Medical devices** providing patient care may be in communication with the system, and transmit operational data thereto. Errors detected in individual **medical devices** may be operative to transmit notifications to manufacturers. Users of such a communication device may... **Claims:** including medical data related to administration of care and medical treatment to a patient; a **medical device** in communication with the server, the **medical device** being operative to administer medical treatment to the patient and to transmit operational data to...

30/3,K/2 (Item 2 from file:350) [Links](#)

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0016155265 *Drawing available*

WPI Acc no: 2006-686894/200671

Related WPI Acc No: 2003-811510

XRPX Acc No: N2006-543529

**Implanted medical device performance optimizing system, has implantable wireless transmitter transmitting contextual information containing operational and performance data of medical device as well as patient to portable device**

Patent Assignee: CARDIAC PACEMAKERS INC (CARD-N)

Inventor: KENKNIGHT B H; LOVETT E G; MANICKA Y; MAZAR S T; SWEENEY R J

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20060195163	A1	20060831	US 200293353	A	20020306	200671	B
			US 2006381051	A	20060501		

Priority Applications (no., kind,date): US 200293353 A 20020306; US 2006381051 A 20060501

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20060195163	A1	EN	22	14	Continuation of application	US 200293353
					Continuation of patent	US 7043305

**Implanted medical device performance optimizing system, has implantable wireless transmitter transmitting contextual information containing operational and performance data of medical device as well as patient to portable device** **Original Titles:**METHOD AND APPARATUS FOR ESTABLISHING CONTEXT AMONG EVENTS AND OPTIMIZING IMPLANTED MEDICAL DEVICE PERFORMANCE **Alerting Abstract** ...**NOVELTY** - The system has a combination of leads and **implantable medical device** (25) providing cardiac rhythm management pulsing and also sensing physiological parameters of heart. An implantable ... well as the patient to a portable device (35) that is coupled to a portable **wireless receiver**. **USE** - Used for optimizing the performance of an **implanted medical device** (IMD) e.g. **pacemaker** defibrillator... **ADVANTAGE** - The portable device collects the information containing the operational and performance data concerning **the implantable medical device** as well as the patient accurately and timely, to optimize the performance of **the implantable device**. ... **DESCRIPTION OF DRAWINGS** - The drawing shows an illustration of a patient with an **implanted medical device**. ... 25

**Implantable medical device** **Original Publication Data by Authority:****Original Abstracts:**An apparatus and method for adjusting the performance of an **implanted device** based on data including contextual information. Contextual information, including operational and performance data concerning **the implanted device** as well as the patient with the **implanted device**, is stored by a portable **electronic device**. In one embodiment, the portable **electronic device** is adapted for battery operation and includes a **personal digital assistant (PDA)**. The portable **electronic device** is adapted for use as an interface to conduct wireless communications with the **implanted device**. In one embodiment,

the portable **electronic device** interfaces with a clinical programmer for use by a **physician**. >**Claims: 1. A system comprising: an implantable wireless transmitter coupled to an implantable medical device; a portable wireless receiver in communication with the implantable wireless transmitter; and a personal digital assistant (PDA) coupled to the portable wireless receiver.**>



30/3,K/3 (Item 3 from file:350) [Links](#)

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0015306617 *Drawing available*

WPI Acc no: 2005-656799/200567

Related WPI Acc No: 2005-656798

XRPX Acc No: N2005-538095

**Remote display system used in hospital, clinics, uses portable handheld device for identifying diagnostic quality display and requesting direct image data transfer from data source to identified display**

Patent Assignee: GENERAL ELECTRIC CO (GENE)

Inventor: AVINASH G B; FORS S; JABRI K N

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050202844	A1	20050915	US 2004801881	A	20040315	200567	B
			US 2004991570	A	20041118		

Priority Applications (no., kind,date): US 2004801881 A 20040315; US 2004991570 A 20041118

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050202844	A1	EN	17	7	C-I-P of application	US 2004801881

**Remote display system used in hospital, clinics, uses portable handheld device for identifying diagnostic quality display and requesting direct image data transfer from data source...** **Alerting Abstract ...NOVELTY -** A portable **handheld** device e.g. **personal digital assistant (PDA)** is used for identifying a diagnostic quality display. The portable **handheld** device requests for image data transfer from a data source e.g. picture archiving and... method for remote display of images in health care environment; and **wireless communication** system. ... **USE -** Remote display system for use with **wireless communication** system (claimed) for facilitating **workflow** in hospital and clinics..... **ADVANTAGE -** Allows usage of one or more portable **handheld** devices for displaying the data from the server, in desired display devices. provides increased throughput for **medical personnel** such as radiologists and **physicians**. Reduces desktop and operating room **clutter**. Provides increased security for clinical applications and data through biometric authentication. By displaying the images.... **DESCRIPTION OF DRAWINGS -** The figure shows a **wireless voice communication** system.... 100 **wireless communication** system ... 110 **wireless communication** device Original Publication Data by Authority. **Original Abstracts:** embodiments of the present invention provide a method and system for improved clinical workflow using **wireless communication**. A system for **remote** image display includes a data source with image data, wherein the data source is capable... source. Communication between the portable device, the data source and/or the display may include **wireless communication**, for example.

30/3,K/4 (Item 4 from file:350) [Links](#)

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0015218901 *Drawing available*

WPI Acc no: 2005-568938/200558

XRAM Acc no: C2005-172176

XRPX Acc No: N2005-466406

**Computer program for execution in computer device for providing information about decision, to mix two drugs in implantable drug delivery device, comprises instructions for calculating two drug volumes to combine in drug mixture**

Patent Assignee: MEDTRONIC INC (MEDT)

Inventor: BUCHSER E E; CROWLEY T P; DUMMANN B T; SCHULTZ B K; VALINE T J

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6928338	B1	20050809	US 2001311527	P	20010810	200558	B
			US 2002215464	A	20020809		

Priority Applications (no., kind,date): US 2001311527 P 20010810; US 2002215464 A 20020809

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 6928338	B1	EN	23	10	Related to Provisional	US 2001311527

...for execution in computer device for providing information about decision, to mix two drugs in implantable drug delivery device, comprises instructions for calculating two drug volumes to combine in drug mixture

**Alerting Abstract** ...providing information about a decision, to mix a first and a second drug in an implantable drug delivery device (22), comprising instructions for calculating a first and a second drug volume to combine in ..

...information about a decision, to mix a first drug and a second drug in an implantable drug delivery device having an adjustable flow rate, comprises instructions for receiving a desired dose rate and an... second drug; receiving a desired drug mixture volume for a least partial transfer to the implantable drug delivery device; calculating a first and a second drug volume to combine in the drug mixture, where. ...An INDEPENDENT CLAIM is also included for an implantable drug delivery system including an implantable drug delivery device having an adjustable flow rate and a reservoir volume, a programmer device for setting the adjustable flow rate via telemetry, and a computer device for executing a computer program having instructions, where setting the adjustable... initial concentration for a second drug; entering into the computer the reservoir volume for the implantable drug delivery device; executing the computer program instructions in the computer to calculate and output a first drug... the programmer device; combining the first and second drug amounts into the mixture in the implantable device; and transmitting a flow rate to satisfy the first drug desired dose rate to the implantable device using the programmer device... information about a decision, to mix a first drug and a second drug in an implantable drug delivery device having an adjustable flow rate, useful for an implantable drug delivery system. The drugs are morphine, baclofen, clonidine, bupivacaine, or adrenaline. (All claimed.) Implantable drug delivery devices are used to manage pain, spasticity, cancer and other medical conditions in patients. They are. ...

OF DRAWINGS - The figure is a schematic view of a drug delivery

system including an **implantable drug delivery device**, a programmer **device** for programming the **implantable drug delivery device** through a **telemetry head**, and a computer device for providing information support... ..22

**Implantable drug delivery device** ... ..44 **Telemetry head Technology Focus** ...a second drug true concentration, calculating and outputting the proper mixture flow rate for the **implantable drug delivery device**, outputting a dose rate for the second drug. Calculating first drug true concentration includes calculating... Original Publication Data by Authority...**Original Abstracts:**methods, and computer programs for better informing decisions to use multiple drugs in drug delivery **devices**, including **implantable devices**, for drug **administration**. **Executable** computer programs and logic embodying methods of the invention can calculate consistent multiple drug mixture... .. first drug true concentration in the mixture. The drugs can be mixed consistent with the **physician's** instructions using the program output. The first drug true concentration can be entered into a programmer device as... diluent amount to be added to a mixture for injection into a fixed flow rate, **implantable drug delivery device**. **Methods** preferably output **true** concentrations and dose rates for all drugs to be added and most preferably show all ... methods can be implemented as executable computer programs in programmer devices, general purpose computers, servers, **handheld** computers, and **personal digital assistants**. >...**Claims:**a decision to mix at least a first drug and a second drug in an **implantable drug delivery device** having an adjustable flow rate, the program comprising instructions for:receiving a desired dose rate and an... .. second drug;receiving a desired drug mixture volume for at least partial transfer to the **implantable drug delivery device**;calculating a first drug volume and a second drug volume to combine in the drug mixture, wherein the first and second drug volumes...

30/3,K/5 (Item 5 from file:350) [Links](#)

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0014863818 *Drawing available*

WPI Acc no: 2005-211533/200522

Related WPI Acc No: 2005-160478

XRPX Acc No: N2005-174835

**Tactile kinesthetic assistant for use by e.g. stock broker, includes scanner worn on user's finger or clothing, to scan printed words, and transmit indication to electronic device for retrieving relevant information through network**

Patent Assignee: THOMAS B D (THOM-I); THOMAS C C (THOM-I)

Inventor: THOMAS B D; THOMAS C C

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050041887	A1	20050224	US 2000656973	A	20000907	200522	B
			US 2004916028	A	20040810		

Priority Applications (no., kind,date): US 2000656973 A 20000907; US 2004916028 A 20040810

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050041887	A1	EN	11	6	Continuation of application	US 2000656973

...worn on user's finger or clothing, to scan printed words, and transmit indication to electronic device for retrieving relevant information through network

**Alerting Abstract** ...finger or clothing, to scan the printed words, and transmit an indication to the network electronic device for retrieving the information related to the printed words, over network. The retrieved information is.....

**USE** - Tactile kinesthetic assistant used by student, nurse, stock broker, physically handicapped and dyslexic people, for retrieving information related to specific word or phrase, medical records, stock prices, using electronic device such as computer system, set top box, cellular phone, personal digital assistant (PDA), dedicated internet gateway, over network such as internet...

**Technology Focus**

**INDUSTRIAL STANDARDS** - The tactile kinesthetic assistant communicates using wireless protocol such as Bluetooth, transport control protocol/internet protocol (TCP/IP)

**Original Publication Data by Authority.**

**Original Abstracts:** allow a person to determine the status of a person or thing (e.g., a nurse retrieving medical records), to allow a person to obtain current information (e.g. a stock broker retrieving stock prices... ..

**Claims:** portion of the scanner is attached to a clothing of a user; and a networked electronic device to receive the indication of the one or more printed words, the networked electronic device to retrieve, via a network, information related to the one or more printed words.

30/3,K/6 (Item 6 from file:350) [Links](#)

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0014508478 *Drawing available*

WPI Acc no: 2004-690398/200467

XRPX Acc No: N2004-547087

**Acoustic transducer arrangement for wireless communication between individual mobile units, converts input signal-based digitized data packets into multi-frequency acoustic signals**

Patent Assignee: MEDIT MEDICAL INTERACTIVE TECHNOLOGIES L (MEDI-N); GEHASIE E (GEHA-I); MENDELSON T (MEND-I)

Inventor: GEHASIE E; MENDELSON T

Patent Family ( 2 patents, 106 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2004080111	A2	20040916	WO 2004IL214	A	20040304	200467	B
US 20060193270	A1	20060831	WO 2004IL214	A	20040304	200657	E
			US 2006547701	A	20060202		

Priority Applications (no., kind,date): IL 154745 A 20030304

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2004080111	A2	EN	38	5		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW					
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
US 20060193270	A1	EN			PCT Application	WO 2004IL214

**Acoustic transducer arrangement for wireless communication between individual mobile units, converts input signal-based digitized data packets into multi-frequency acoustic...** Alerting Abstract ... USE - For wireless communication between medical device and physician's personal mobile unit such as personal digital assistant, computer, in hospital..... DESCRIPTION OF DRAWINGS - The figure shows a schematic view of the wireless exchanges between two communication module.

30/3,K/7 (Item 7 from file:350) [Links](#)

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0013714027 *Drawing available*

WPI Acc no: 2003-811510/200376

Related WPI Acc No: 2006-686894

XRPX Acc No: N2003-649719

**Medical device e.g. defibrillator performance adjusting system, has portable device including wireless receiver and personal digital assistant including set of instructions to display messages based on patients responses**

Patent Assignee: CARDIAC PACEMAKERS INC (CARD-N); KENKNIGHT B H (KENK-I); LOVETT E G (LOVE-I); MANICKA Y (MANI-I); MAZAR S T (MAZA-I); SWEENEY R J (SWEE-I)

Inventor: KENKNIGHT B H; LOVETT E G; MANICKA Y; MAZAR S T; SWEENEY R J

Patent Family ( 6 patents, 102 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030171791	A1	20030911	US 200293353	A	20020306	200376	B
WO 2003075744	A2	20030918	WO 2003US6851	A	20030306	200376	E
AU 2003217955	A1	20030922	AU 2003217955	A	20030306	200431	E
EP 1513585	A2	20050316	EP 2003713931	A	20030306	200519	E
			WO 2003US6851	A	20030306		
US 7043305	B2	20060509	US 200293353	A	20020306	200632	E
AU 2003217955	A8	20051110	AU 2003217955	A	20030306	200634	E

Priority Applications (no., kind,date): US 200293353 A 20020306

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20030171791	A1	EN	22	14		
WO 2003075744	A2	EN				
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW					
Regional Designated States,Original	AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
AU 2003217955	A1	EN			Based on OPI patent	WO 2003075744
EP 1513585	A2	EN			PCT Application	WO 2003US6851
					Based on OPI patent	WO 2003075744
Regional Designated States,Original	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					

AU 2003217955	A8	EN		Based on OPI patent	WO 2003075744
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**Medical device e.g. defibrillator performance adjusting system, has portable device including wireless receiver and personal digital assistant including set of instructions to display messages based on patients responses**  
**...Original Titles:OPTIMIZING IMPLANTED MEDICAL DEVICE PERFORMANCE... Method and apparatus for establishing context among events and optimizing implanted medical device performance... Method and apparatus for establishing context among events and optimizing implanted medical device performance...**  
**...OPTIMIZING IMPLANTED MEDICAL DEVICE PERFORMANCE... Alerting Abstract ...NOVELTY - The system has a portable device (35) including an implantable wireless transmitter coupled to an implantable medical device (25). A portable wireless receiver is in communication with the implantable wireless transmitter for receiving responses from a patient (455). A personal digital assistant is coupled to the portable wireless receiver and includes a set of instructions to display messages based on the responses. USE - Used for adjusting the performance of implanted medical devices e.g. defibrillators, pacemakers and cardiac resynchronization devices... collects timely data from the patients and correlates it with the data provided by the medical device, thereby improving the accuracy at which treatment is provided... DESCRIPTION OF DRAWINGS - The drawing shows a patient with an implanted medical device holding a portable communicator... 25 Medical device ... 35 Portable wireless receiver**  
**Original Publication Data by AuthorityOriginal Abstracts:**An apparatus and method for adjusting the performance of an implanted device based on data including contextual information. Contextual information, including operational and performance data concerning the implanted device as well as the patient with the implanted device, is stored by a portable electronic device. In one embodiment, the portable electronic device is adapted for battery operation and includes a personal digital assistant (PDA). The portable electronic device is adapted for use as an interface to conduct wireless communications with the implanted device. In one embodiment, the portable electronic interfaces with a clinical programmer for use by a physician. ... An apparatus and method for adjusting the performance of an implanted device based on data including contextual information. Contextual information, including operational and performance data concerning the implanted device as well as the patient with the implanted device, is stored by a portable electronic device. In one embodiment, the portable electronic device is adapted for battery operation and includes a personal digital assistant (PDA). The portable electronic device is adapted for use as an interface to conduct wireless communications with the implanted device. In one embodiment, the portable electronic device interfaces with a clinical programmer for use by a physician.  
**Claims:**We claim:1. A system comprising:an implantable wireless transmitter coupled to an implantable medical device;a portable wireless receiver in communication with the implantable wireless transmitter; and a personal digital assistant (PDA) coupled to the portable wireless receiver... We claim:1. A method comprising: receiving data from an implantable device;receiving a user input at a personal digital assistant (PDA), the PDA in wireless communication with the implantable device and in communication with a programmer;correlating the data with the user input to form contextual information;encoding a message for delivery to the implantable device, the message encoded by the programmer as a function of the contextual information; andtransferring the encoded message from the programmer to the PDA for wireless delivery from the PDA to the implantable device.>

30/3,K/8 (Item 8 from file:350) [Links](#)

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0013295516 *Drawing available*

WPI Acc no: 2003-382310/200336

XRPX Acc No: N2003-305433

**Implantable medical device programming apparatus for wireless programming of various electronic and mechanical devices uses two-stage process to fine tune parameters of stimulator**

Patent Assignee: MEDTRONIC INC (MEDT)

Inventor: CHRISTOPHERSON M A; GOETZ S; GOETZ S M; GREVIOUS J; GREVIOUS J J; LEE D W; MALEK S

Patent Family ( 5 patents, 95 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2003037430	A2	20030508	WO 2002US1540	A	20020116	200336	B
US 20030171789	A1	20030911	US 20012328	A	20011101	200367	E
EP 1441810	A2	20040804	EP 2002705857	A	20020116	200451	E
			WO 2002US1540	A	20020116		
AU 2002239979	A1	20030512	AU 2002239979	A	20020116	200464	E
US 7187978	B2	20070306	US 20012328	A	20011101	200718	E

Priority Applications (no., kind,date): US 20012328 A 20011101

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2003037430	A2	EN	18	9		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW					
EP 1441810	A2	EN			PCT Application	WO 2002US1540
					Based on OPI patent	WO 2003037430
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
AU 2002239979	A1	EN			Based on OPI patent	WO 2003037430

**Implantable medical device programming apparatus for wireless programming of various electronic and mechanical devices uses two-stage process...** Original Titles:METHOD AND APPARATUS FOR



PROGRAMMING AN IMPLANTABLE MEDICAL DEVICE ... METHOD AND APPARATUS FOR  
 PROGRAMMING AN IMPLANTABLE MEDICAL DEVICE ... Method and apparatus for programming an  
 implantable medical device ... Method and apparatus for programming an implantable medical device ...  
 ...METHOD AND APPARATUS FOR PROGRAMMING AN IMPLANTABLE MEDICAL DEVICE Alerting  
 Abstract ...40) to form a closed-loop feedback control system. The stimulator is controlled using hand-held  
 physician programmer (310), a remote telemetry unit (340), a hand-held patient programmer (320) and an external  
 neural stimulator (330). ...for an external neural stimulator, for a method of establishing initial therapy parameters of an  
 implantable medical device and for a medical system... USE - Wireless processing of implantable medical  
 device, for implantable electrical stimulation system, implantable drug delivery system or combined electrical  
 stimulation/drug delivery system... 310, 320 Physician and patient programmers... 340 Telemetry unit Original  
 Publication Data by Authority Original Abstracts: A method and system for programming settings of a medical  
 device surgically implanted within a body of a patient. The system comprises a physician programmer, a patient  
 programmer, an external neural stimulator, and a telemetry component being in communication with the implanted  
 medical device, the external neural stimulator, and the physician programmer. The implantable medical device may  
 be programmed using a two-phase process, a screening phase and an implant phase. During the screening phase, the  
 physician and patient programmers may be used to roughly test the parameters of the stimulation to determine that the  
 treatment therapy is efficacious. During the implant phase, the same physician and patient programmers may be used  
 to fine tune the parameters of the stimulation.... A method and system for programming settings of a medical device  
 surgically implanted within a body of a patient. The system comprises a physician programmer, a patient  
 programmer, an external neural stimulator, and a telemetry component being in communication with the implanted  
 medical device, the external neural stimulator, and the physician programmer. The implantable medical device may  
 be programmed using a two-phase process, a screening phase and an implant phase. During the screening phase, the  
 physician and patient programmers may be used to roughly test the parameters of the stimulation to determine that the  
 treatment therapy is efficacious. During the implant phase, the same physician and patient programmers may be used  
 to fine tune the parameters of the stimulation.... A method and system for programming settings of a medical device  
 surgically implanted within a body of a patient. The system comprises a physician programmer, a patient  
 programmer, an external neural stimulator, and a telemetry component being in communication with the implanted  
 medical device, the external neural stimulator, and the physician programmer. The implantable medical device may  
 be programmed using a two-phase process, a screening phase and an implant phase. During the screening phase, the  
 physician and patient programmers may be used to roughly test the parameters of the stimulation to determine that the  
 treatment therapy is efficacious. During the implant phase, the same physician and patient programmers may be used  
 to fine tune the parameters of the stimulation.... A method and system for programming settings of a medical device  
 surgically implanted within a body of a patient. The system comprises a physician programmer, a patient  
 programmer, an external neural stimulator, and a telemetry component being in communication with the implanted  
 medical device, the external neural stimulator, and the physician programmer. The implantable medical device may  
 be programmed using a two-phase process, a screening phase and an implant phase. During the screening phase, the  
 physician and patient programmers may be used to roughly test the parameters of the stimulation to determine that the  
 treatment therapy is efficacious. During the implant phase, the same physician and patient programmers may be used  
 to fine tune the parameters of the stimulation.. Claims: We claim: 1. A system for establishing therapy parameters of a  
 implantable medical device comprising in combination (a) at least one implantable lead; (b) an external neural  
 stimulator capable.... We claim: 1. A system for establishing therapy parameters of an implantable medical device  
 comprising in combination: (a) at least one implantable lead; (b) an external neural stimulator capable...

30/3,K/9 (Item 9 from file:350) [Links](#)

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0012951735

WPI Acc no: 2003-028625/200302

XRPX Acc No: N2003-022480

**Wireless communication method for healthcare delivery industry, involves creating, accessing, modifying and retrieving patient electronic database information wirelessly**

Patent Assignee: IBOK E (IBOK-I), UTUK E (UTUK-I)

Inventor: IBOK E; UTUK E

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020116219	A1	20020822	US 2001789058	A	20010219	200302	B

Priority Applications (no., kind,date): US 2001789058 A 20010219

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20020116219	A1	EN	4	0	

**Wireless communication method for healthcare delivery industry, involves creating, accessing, modifying and retrieving patient electronic database information... Alerting Abstract** ...a database. The information is accessed, modified and retrieved by a wireless device such as **PDA**, laptop computer, etc.... A method of collecting **physician** profiles A method of collecting patient profiles A method of collecting and storing diagnosis information and wirelessly... of generating, collecting, storing and retrieving prescription information A method of fault free prescription by **physician** access to pharmaceutical database A method of generating and storing **physician notes**. Original Publication Data by Authority... **Original Abstracts:** method of editing, accessing, creating, and retrieving database information in a medical services business wirelessly. The wireless **device** could be a **PDA**, laptop, a computer, or any telephony device. The database information extends from pre-admission, to treatment, to post-admission... hospitalization data. It also covers EMS operations and interactions with hospitals. It covers patient and **physician** history and laboratory **diagnosis**. It describes method of wirelessly generating healthcare provider notes and the authentication of such notes...

30/3,K/10 (Item 10 from file: 350) [Links](#)

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0012891380 *Drawing available*

WPI Acc no: 2002-750865/200281

XRPX Acc No: N2002-591330

**Hand-held mobile field device for use by health care consumers, has accessory interface that provides wireless communication with several patient medical monitoring devices in patient rooms**

Patent Assignee: BARRETTE P P (BARR-I); BISHOP N J (BISH-I); IPDN CORP (IPDN-N); SAIGH M (SAIG-I)

Inventor: BARRETTE P P; BISHOP N J; SAIGH M

Patent Family ( 4 patents, 98 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2002086662	A2	20021031	WO 2002US12137	A	20020418	200281	B
US 20020188466	A1	20021212	US 2001837112	A	20010418	200301	E
AU 2002256263	A1	20021105	AU 2002256263	A	20020418	200433	E
AU 2002256263	A8	20051013	AU 2002256263	A	20020418	200611	E

Priority Applications (no., kind,date): US 2001837112 A 20010418

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2002086662	A2	EN	29	6		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW					
AU 2002256263	A1	EN			Based on OPI patent	WO 2002086662
AU 2002256263	A8	EN			Based on OPI patent	WO 2002086662

**Hand-held mobile field device for use by health care consumers, has accessory interface that provides wireless communication with several patient medical monitoring devices in patient rooms** **Original Titles:** Mobile devices for medical applications... **Alerting Abstract** ...**NOVELTY** - An accessory interface provides wireless communication between the mobile field device (10) and fixed in patient room diagnostic devices and monitoring..... consumers to electronically access medical information, drug information, and for self-monitoring as prescribed by physician. **Original Publication Data by Authority** **Original Abstracts:** One embodiment of the present invention is a hand-held mobile field device configured to provide wireless communication with a plurality of patient medical monitoring devices. Another embodiment of the present invention is a network including at least one hand-held

mobile field **device** of the type described above, the network also being electronically connected to databases maintained by a. . . . One embodiment of the present invention is **hand-held** mobile field device configured to provide wireless **communication with** a plurality of patient **medical** monitoring **devices**. Another embodiment of the present invention is a **network** including at least one **hand-held** mobile field device of the type described **above**, the network also being electronically connected to databases maintained by a hospital. . . . **Claims:** What is claimed is **1**. A **hand-held** mobile field device configured to provide **wireless communication with** a plurality of patient medical monitoring **devices**.>

30/3,K/11 (Item 11 from file: 350) [Links](#)

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0012808733 *Drawing available*

WPI Acc no: 2002-665810/200271

XRPX Acc No: N2002-526763

**Handheld device for ECG, has telemetry unit receiving physiological signals transmitted across telemetry head and bulbous structure through cable**

Patent Assignee: AU N (AUNN-I); BRECHT M (BREC-I); BUCHENAU M (BUCH-I); CROWLEY T (CROW-I); KARSHMER D (KARS-I); MEDTRONIC INC (MEDT); NELSON C G (NELS-I); OAKLEY N (OAKL-I); PEARCE E M (PEAR-I); PERRY POOL N (POOL-I); POWELL R M (POWE-I); TAL E (TALE-I)

Inventor: AU N; BRECHT M; BUCHENAU M; CROWLEY T; KARSHMER D; NELSON C G; OAKLEY N; PEARCE E M; PERRY POOL N; POWELL R M; TAL E

Patent Family ( 2 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020095093	A1	20020718	US 2000192943	P	20000329	200271	B
			US 2001821201	A	20010329		
US 6748260	B2	20040608	US 2001821201	A	20010329	200437	E

Priority Applications (no., kind,date): US 2000192943 P 20000329; US 2001821201 A 20010329

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20020095093	A1	EN	10	4	Related to Provisional	US 2000192943

**Handheld device for ECG, has telemetry unit receiving physiological signals transmitted across telemetry head and bulbous structure through cable** **Original Titles:**Handheld surface ECG and RF apparatus incorporated with a medical device ... ..Hand-held surface ECG and RF apparatus incorporated with a medical device **Alerting Abstract** ...NOVELTY - A **telemetry** head (8) and a bulbous structure (10) have respective electrodes (12) establishing contact with hands of a person. A **telemetry** unit (4) receives physiological signals transmitted across the head and the structure through a cable... **DESCRIPTION** - An **INDEPENDENT CLAIM** is included for**handheld** surface ECG and RF system... ..**USE** - **Handheld** device for detecting cardiac depolarization for remote monitoring of ECGs of patients... ..**DESCRIPTION OF DRAWINGS** - The figure shows the **handheld** device connected to lightweight**telemetry** head... ..4 **Telemetry** unit... ..8 **Telemetry** head... **Title Terms** .../Index Terms/Additional Words: **TELEMETRY**; Original Publication Data by Authority.**Original Abstracts:**tracing transmission to a patient monitoring station. In one embodiment the structure incorporates an **Rf****telemetry** head to simultaneously**transfer** IMD stored data in conjunction with the ECG tracings. The structure independently or in combination with the RF **telemetry** head is adaptable to a system of data communications with a programmer or equivalent instrument to transfer ECG and IMD data to a remotelylocated **physician** station or patient **data** storage server. The system is also adaptable for use with a web-enablednetwork such... .. tracing transmission to a patient monitoring station. In one embodiment the structure incorporates an **Rf****telemetry** head to simultaneously transfer IMD stored data in

**conjunction** with the ECG tracings. The structure independently or in combination with the RF **telemetry** head is adaptable to a system of data **communications** with a programmer or equivalent instrument to transfer ECG and IMD data to a remotely located **physician** station or patient data storage server. The system is also adaptable for use with a web-enabled network such as, without limitation, the Internet... **Claims:** to be easily graspable to establish said skin-electrode contact in another hand; and **telemetry** unit having operable data communications link with said first and said second structure, said first structure being connected to said second structure wherein the physiological signal created across said first and said second structures is transmitted to said **telemetry** unit via said data communication link. .... skin-electrode contact for physiological signal acquisition of surface **electrocardiogram** (ECG), myocardial electrogram (EGM) and **pacemaker** stimulation signals from a patient, comprising: a first bulbous structure including at least one surface electrode, said first bulbous structure configured to be easily manually grasped to **thereby** establish electrical communication between said at least one surface electrode and one hand of a .... at least one surface electrode and contact in another hand of the patient; and **telemetry** unit having operable data communications link with said first bulbous structure and said second bulbous... .. bulbous structure operatively electrically connected to said second bulbous structure wherein a temporal physiological surface **ECG** signals generated between said first and said second bulbous structures is automatically transmitted to said **telemetry** unit via said data communication link when electrical communication is established for both the first and second bulbous structures. wherein the **telemetry** unit includes means for establishing **wireless communication** with a **pacemaker** disposed within the **patient** so that temporal EGM signals from the **pacemaker** are automatically communicated via the data communications link when electrical communication is established for both the first and second bulbous structures.

30/3,K/12 (Item 12 from file: 350) [Links](#)

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0012255224 *Drawing available*

WPI Acc no: 2002-195264/200225

Related WPI AccNo: 2002-147752

XRAM Acc no: C2002-060284

XRFX Acc No: N2002-148345

**Medical data provider system comprises wireless communication device, and computer network including memory device**

Patent Assignee: DEKRAFFT C E (DEKR-I); NEMETH L G (NEME-I); TUCK R S (TUCK-I); VANDERBURG C R (VAND-I)

Inventor: DEKRAFFT C E; NEMETH L G; TUCK R S; VANDERBURG C R

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020016719	A1	20020207	US 2000596325	A	20000619	200225	B
			US 2001883708	A	20010618		

Priority Applications (no., kind,date): US 2000596325 A 20000619; US 2001883708 A 20010618

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20020016719	A1	EN	22	5	C-I-P of application	US 2000596325

**Medical data provider system comprises wireless communication device, and computer network including memory device** Alerting Abstract ... a **wireless communication**, which receives **medical data** from a monitor borne by an ambulatory patient, and transmits at least some of the medical data; and a computer network is provided which receives the medical data transmitted by the communication device, and comprises a memory device for storing a configurable notification record, in new. ... a **wireless communication device** for **receiving medical data** from a **monitor** (12) borne by an ambulatory patient and transmitting some of the medical data, where the... to the patient; a computer network for receiving the medical data transmitted comprising a memory device for storing a configurable notification record to define distribution parameter(s) selected from a third... medical data received from a remotely located patient to a third party including patient's **physician**, pharmaceutical companies, biotechnology companies, research institutions, and **clinical** trial organizations... ADVANTAGE - The inventive system can permit the patients to provide their medical data to their **physicians** without the need to visit their **physician's** office. Further, an abnormal condition of the patient can be readily treated, and the third party can prescribe remedial action to be... 14 **Wireless communication device Technology Focus** COMPUTING AND CONTROL - Preferred Component: The **wireless communication** device consists of cellular telephone or **personal digital assistant**. It can receive data input by the patient relating to a factor consisting of diet... Original Publication Data by Authority. **Original Abstracts**: transmitted and the conditions under which the alert is to be provided. In operation, **wireless communication device** receives the **medical data from a monitor** borne by an ambulatory patient and wirelessly transmits at least some of the medical data...

30/3,K/13 (Item 13 from file: 350) [Links](#)

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0007486140 *Drawing available*

WPI Acc no: 1996-097465/199610

XRPX Acc No: N1996-081371

**Hand-held patient programmer for implanted tissue stimulator - uses RF transmitter and receiver to transmit programming signals to implanted pulse generator and monitor programming and pulse generator status**

Patent Assignee: MEDTRONIC INC (MEDT)

Inventor: HRDLICKA A; HRDLICKA G A; KALLMYER A; KALLMYER T A; MEYERSON C M; MEYERSON M; STANTON D J; STANTON J

Patent Family ( 11 patents, 63 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1996001665	A1	19960125	WO 1995US8243	A	19950628	199610	B
AU 199529147	A	19960209	AU 199529147	A	19950628	199619	E
AU 677526	B	19970424	AU 199529147	A	19950628	199725	E
EP 939661	A1	19990908	EP 1995924761	A	19950628	199941	E
			WO 1995US8243	A	19950628		
US 6249703	B1	20010619	US 1994272728	A	19940708	200137	E
EP 1134003	A2	20010919	EP 1995924761	A	19950628	200155	E
			EP 2001113418	A	19950628		
EP 939661	B1	20020828	EP 1995924761	A	19950628	200264	E
			WO 1995US8243	A	19950628		
			EP 2001113418	A	19950628		
DE 69527996	E	20021002	DE 69527996	A	19950628	200273	E
			EP 1995924761	A	19950628		
			WO 1995US8243	A	19950628		
EP 1134003	B1	20051019	EP 1995924761	A	19960125	200572	E
			EP 2001113418	A	19950628		
DE 69534537	E	20051124	DE 69534537	A	19950628	200579	E
			EP 2001113418	A	19950628		
DE 69534537	T2	20060518	DE 69534537	A	19950628	200637	E
			EP 2001113418	A	19950628		

Priority Applications (no., kind,date): US 1994272728 A 19940708

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 1996001665	A1	EN	32	9		
National Designated	AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS					



30/3,K/14 (Item 1 from file:2) [Links](#)

Fulltext available through: [ScienceDirect](#)

INSPEC

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08762105 **INSPEC Abstract Number:** A2003-23-8770F-022, B2003-11-7550-035, C2003-11-7330-324

**Title:** Low-cost home monitoring using a Java-based embedded computer

**Author** Lamberti, F.; Demartini, C.

**Author Affiliation:** Dipt. di Automatica e Informatica, Politecnico di Torino, Italy

**Conference Title:** Conference Proceedings. 4th International IEEE EMBS Special Topic Conference on Information Technology Applications in Biomedicine 2003 (Cat No.03TH8655) p. 342-5

**Publisher:** IEEE, Piscataway, NJ, USA

**Publication Date:** 2003 **Country of Publication:** USA 388 pp.

**ISBN:** 0 7803 7667 6 **Material Identity Number:** XX-2003-00325

**U.S. Copyright Clearance Center Code:** 0-7803-7667-6/03/\$17.00

**Conference Title:** International Conference on Information Technology - Applications in Biomedicine

**Conference Date:** 24-26 April 2003 **Conference Location:** Birmingham, UK

**Language:** English

**Subfile:** A B C

Copyright 2003, IEE

**Abstract:** In this paper the design and development of a low-cost **homecare** architecture for remote patient **telemetry** built upon a Java-based embedded computer is presented. The proposed architecture has been validated by experiencing real-time ECG monitoring by means of desktop PCs equipped with Web browsers **Personal Digital Assistants** and WAP-enabled GSM/GPRS mobile phones. The modular approach followed in the development of the home station allows additional **medical devices** to be easily integrated to fulfil the requirements of heterogeneous **homecare** scenarios. We expect that the availability of such a low-cost telemedicine device will contribute to further extend healthcare reach to the **homecare** environment.

**Descriptors:** biomedical **telemetry**;

**Identifiers:** ...low-cost **homecare** architecture; ...remote patient **telemetry**; ... **Personal Digital Assistants**; ...heterogeneous **homecare** scenarios

30/3,K/15 (Item 2 from file:2) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

INSPEC

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07822866 **INSPEC Abstract Number:** A2001-05-8770-001, B2001-03-7550-006

**Title:** Unhooking medicine [wireless networking]

**Author** Moore, S.K.

**Journal:** IEEE Spectrum vol.38, no.1 p. 107-8, 110

**Publisher:** IEEE ,

**Publication Date:** Jan. 2001 **Country of Publication:** USA

**CODEN:** IEESAM **ISSN:** 0018-9235

**SICI:** 0018-9235(200101)38:1L:107:UMWN;1-A

**Material Identity Number:** I094-2001-001

**U.S. Copyright Clearance Center Code:** 0018-9235/2001/\$10.00

**Language:** English

**Subfile:** A B

Copyright 2001, IEE

**Abstract:** In summer 2000, the FCC allocated 14 MHz for the Wireless Medical **Telemetry** Service, or WMTS. The new service is broken into three bands: 608-614, 1395-1400... The old bands will become increasingly troublesome to use in medicine. The ruling is forcing **medical device** firms to come up with fixes for their old devices and new technologies for the next generation of wireless **telemetry**. The new band allocation has pushed cash-strapped hospitals in the United States to the... which could mean the purchase of new transmitters, receivers, and antennas. At the same time **physicians** and other health care workers are confronted with a whole raft of new wireless technologies, many involving accessing patient data through **personal digital assistant (PDA)** or a wireless phone. While the WMTS offers a safe haven for **telemetry** signals, it has some technical limitations that may diminish its importance.

**Descriptors:** biomedical **telemetry**;

**Identifiers:** ...Wireless Medical **Telemetry** Service... **medical device** firms... **personal digital assistant**;

30/3,K/16 (Item 1 from file:256) **Links**

TecInfoSource

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00165402      **Document Type:** Review

**Product Names:** EASYBAND Remove Adjustable Gastric Band System (281743)

**Title:** The Telemetric Way to Weight Loss

**Author:** Allan, Roger

**Source:** Electronic Design ,    v55 n3    p39(3) Feb 1, 2007

ISSN: 0013-4872

**Homepage:** <http://www.elecdesign.com>

**File Segment:** Review

**Record Type:** Product Analysis

**Revision Date:** 20070600

...systems currently on the market use saline filled bands, which require an access port for **physicians** to periodically adjust the bands' fluid levels and tightness. But these access ports can lead.....site pain, fluid leakage,belt migration and a host of other problems. EASYBAND, however, use**telemetry** signals to adjust the band, based on the company's Flowatch telemetering technology. The entire....a band, a clip, a sleeve, and a cable. The antenna is implanted subcutaneously, allowing**physicians** to adjust the belt with the**handheld** control box. A weak electromagnetic fieldis created between the two antenna loops, inducing the...

**Descriptors:** Medical Devices; Telemedicine

30/3,K/17 (Item 1 from file:23) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

CSA Technology Research Database

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0007805381 IP Accession No: 200612-61-115209; 200612-16-137014

**DEVELOPMENT OF A NEW MYOSTIMULATOR - FIRST EXPERIENCE WITH THE MID DISTANCE IMPLANT RF-TELEMETRY**

Klapproth, P; Rajesh, T; Grossherr, M; Otten, J; Buter, T; Schirmer, R; Maczinowski, P; Sievers, H H; Guldner, N W  
Clinic of Cardiac Surgery, University of Lubeck, Lubeck, Germany

International Journal of Artificial Organs y 29 , n 5 , p 516 , May 2006

**Publication Date:** 2006

**Publisher:** Wichtig Editore , ViaFriulu 72 , Milano , 20135

**Country Of Publication:** Italy

**Publisher Url:** <http://www.artificial-organs.com>

**Publisher Email:** marina.tresoldi@wichtig.it

**Conference:**

XXXIII Congress of the European Society for Artificial Organs , Umea , Sweden , 21-24 June 2006

**Document Type:** Conference Paper; Journal Article

**Record Type:** Abstract

**Language:** English

**ISSN:** 0391-3988

**File Segment:** Mechanical & Transportation Engineering Abstracts; Solid State & Superconductivity Abstracts

**DEVELOPMENT OF A NEW MYOSTIMULATOR - FIRST EXPERIENCE WITH THE MID DISTANCE IMPLANT RF-TELEMETRY**

**Abstract:**

**Background:** Wireless data transfer from an implant, e.g. cardio- or myostimulators to an external programming device, is common... ..limitation and design a myostimulator with the ability of implant-initialized communication, a RF based telemetry module was utilized. A communication line was to develop and test in vivo. **Materials and Methods:** The myostimulator consists of the standard components of two microcontrollers and a RF telemetry module (433 MHz band). One controller is responsible for myostimulation tasks, the other for measurements... ..via PC. In vivo examinations were carried out in n=4 African Boor goats by implanting the device subcutaneously. **Results:** The communication protocol was programmed to be packet orientated and failure recognizing. Failed... ..6000 and 8000 bits per second. **Conclusions:** By means of the implant-initialized, mid distance telemetry, important subject relevant information could be collected and transmitted by the implant. An external, wearable receiver like a PDA could inform subject and bridge data between the implant and others like the consulting physician and a medical center.

**Descriptors:** Surgical implants; Devices; In vivo tests; Telemetry; Biomedical materials; In vivo testing; Biocompatibility; Modules; Data transfer (computers); Radio frequencies; Tasks; Microcontrollers; Medical; Programming; Receivers; Artificial organs; Wearable; Transceivers; PDA; Consulting

30/3,K/18 (Item 2 from file:23) **Links**

Fulltext available through: **SPIE - The International Society of Optical Engineering USPTO Full Text Retrieval Options**

CSA Technology Research Database

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0007237909 IP Accession No: 200604-82-11636

**Visualization of medical images over mobile wireless handheld devices**

Wu, Min; Ashish, Khurana; Mariappan, Nadar; Chen, Chang Wen

Proc. SPIE , v SPIE-5684 , p 22-31

**Publication Date:** 2005

**Conference:**

Multimedia on Mobile Devices ,San Jose, CA , USA , 17-18 Jan. 2005

**Document Type:** Conference Paper; Journal Article

**Record Type:** Abstract

**Language:** English

**ISSN:** 0277-786X

**ISBN:** 0819456578

**Report No:** SPIE-5684

**File Segment:** Computer & Information Systems Abstracts

**Visualization of medical images over mobile wireless handheld devices**

**Abstract:**

With the novel advances in wireless communication and personal mobile handheld devices, a newly emerging technology of medical visualization on mobile handheld is believed to provide advance service for physicians, especially in image-based diagnosis. In this paper, we have implemented a real time easy-to- use 3D volume visualization system on mobile handheld devices. The doctors could use their wireless handheld devices, such as Pocket PC or PDA, interactively access medical image at anytime and anywhere in the hospital building. System architecture, technical...

**Descriptors:** Image processing; Mobile communication systems; Devices; Medical science; Data visualization; Wireless communication; Diagnosis; Frames per second; PDA; Image compression; Doctors; Real time; Physicians; Standards

30/3,K/19 (Item 3 from file:23) [Links](#)

Fulltext available through: [ScienceDirect](#)

CSA Technology Research Database

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0006753957 IP Accession No: 200505-82-08850; 200505-10-06887

**Improved Electronics in Medical devices Leads to Better Patient Care**

ECN , v 48 , n 13 , p 78,79 , 15 Nov. 2004

**Publication Date:** 2004

**Publisher:** Reed Business Information (NJ) ,301 Gibraltar Drive, Box 650 , Morris Plains , NJ , 07950-0650

**Country Of Publication:** USA

**Publisher Url:** <http://www.reedbusiness.com/>

**Document Type:** Journal Article

**Record Type:** Abstract

**Language:** English

**File Segment:** Computer & Information Systems Abstracts; Electronics & Communications Abstracts

**Improved Electronics in Medical devices Leads to Better Patient Care**

**Abstract:**

...profession has not been immune to the emergence of wireless technology. Like most professionals, doctors, nurses and medical specialists are becoming more reliant on wireless devices such as personal digital assistants (PDAs) to improve the efficiency of their jobs. That is only one way in which.....which patients are treated. Stethoscopes, thermometers and heart monitors are just a few of the medical devices with capabilities that have dramatically changed the betterment of patient care. Fortunately, this scenario also creates a healthy opportunity for electronic design engineers as these medical devices now must provide exceptional audio specifications while also having network integration tools previously unheard of for medical devices.

**Descriptors:** Surgical implants; Patients; Electronics; Stethoscopes; Audio frequency; Wireless communication; Thermometers

30/3,K/20 (Item 1 from file:56) [Links](#)

Fulltext available through: [SPIE - The International Society of Optical Engineering USPTO Full Text Retrieval Options](#)

Computer and Information Systems Abstracts

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0000438667 IP Accession No: 200604-82-11636

**Visualization of medical images over mobile wireless handheld devices**

Wu, Min; Ashish, Khurana; Mariappan, Nadar; Chen, Chang Wen

Proc. SPIE , v SPIE-5684 , p 22-31

**Publication Date:** 2005

**Conference:**

Multimedia on Mobile Devices ,San Jose, CA , USA , 17-18 Jan. 2005

**Document Type:** Conference Paper; Journal Article

**Record Type:** Abstract

**Language:** English

**ISSN:** 0277-786X

**ISBN:** 0819456578

**Report No:** SPIE-5684

**File Segment:** Computer & Information Systems Abstracts

**Visualization of medical images over mobile wireless handheld devices**

**Abstract:**

With the novel advances in wireless communication and personal mobile handheld devices, a newly emerging technology of medical visualization on mobile handheld is believed to provide advance service for physicians, especially in image-based diagnosis. In this paper, we have implemented a real time easy-to- use 3D volume visualization system on mobile handheld devices. The doctors could use their wireless handheld devices, such as Pocket PC or PDA, interactively access medical image at anytime and anywhere in the hospital building. System architecture, technical...

**Descriptors:** Image processing; Mobile communication systems; Devices; Medical science; Data visualization; Wireless communication; Diagnosis; Frames per second; PDA; Image compression; Doctors; Real time; Physicians; Standards

30/3,K/21 (Item 2 from file:56) **Links**

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Computer and Information Systems Abstracts

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**Improved Electronics in Medical devices Leads to Better Patient Care**

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**Abstract:**

...profession has not been immune to the emergence of wireless technology. Like most professionals, doctors, nurses and medical specialists are becoming more reliant on wireless devices such as personal digital assistants (PDAs) to improve the efficiency of their jobs. That is only one way in which.....which patients are treated. Stethoscopes, thermometers and heart monitors are just a few of the medical devices with capabilities that have dramatically changed the betterment of patient care. Fortunately, this scenario also creates a healthy opportunity for electronic design engineers as these medical devices now must provide exceptional audio specifications while also having network integration tools previously unheard of for medical devices.

**Descriptors:** Surgical implants; Patients; Electronics; Stethoscopes; Audio frequency; Wireless communication; Thermometers